

ATGAAATTTA	GTAAAAAATA	TATAGCAGCT	GGATCAGCTG	TTATCGTATC	CTTGAGTCTA	60
TGTGCCTATG	CACTAAACCA	GCATCGTTTCG	CAGGAAAATA	AGGACAATAA	TCGTGTCTCT	120
TATGTGGATG	GCAGCCAGTC	AAGTCAGAAA	AGTGAAAAC	TGACACCAGA	CCAGGTTAGC	180
CAGAAAGAAG	GAATTCAGGC	TGAGCAAAT	GTAATCAAAA	TTACAGATCA	GGGCTATGTA	240
ACGTCACACG	GTGACCACTA	TCATTACTAT	AATGGGAAAG	TTCTTTATGA	TGCCCTCTTT	300
AGTGAAGAAC	TCTTGATGAA	GGATCCAAAC	TATCAACTTA	AAGACGCTGA	TATTGTCAAT	360
GAAGTCAAGG	GTGGTTATAT	CATCAAGGTC	GATGGAAAAT	ATTATGTCTA	CCTGAAAGAT	420
GCAGCTCATG	CTGATAATGT	TCGAACTAAA	GATGAAATCA	ATCGTCAAAA	ACAAGAACAT	480
GTCAAAGATA	ATGAGAAGGT	TAACCTAAT	GTTGCTGTAG	CAAGGTCTCA	GGGACGATAT	540
ACGACAAATG	ATGGTTATGT	CTTTAATCCA	GCTGATATTA	TCGAAGATAC	GGGTAATGCT	600
TATATCGTTC	CTCATGGAGG	TCATATCAC	TACATTCCCA	AAAGCGATTT	ATCTGCTAGT	660
GAATTAGCAG	CAGCTAAAGC	ACATCTGGCT	GGAAAAATA	TGCAACCGAG	TCAGTTAAGC	720
TATTCTTCAA	CAGCTAGTGA	CAATAACACG	CAATCTGTAG	CAAAAGGATC	AATCTCAAG	780
CCAGCAAATA	AATCTGAAAA	TCTCCAGAGT	CTTTTGAAGG	AACTCTATGA	TTACCTAGC	840
GCCCAACGTT	ACAGTGAATC	AGATGGCCTG	GTCTTTGACC	CTGCTAAGAT	TATCAGTCGT	900
ACACCAAATG	GAGTTGCGAT	TCCGCATGGC	GACCATTACC	ACTTTATTCC	TTACAGCAAG	960
CTTTCTGCTT	TAGAAGAAAA	GATTGCCAGA	ATGGTGCCTA	TCAGTGGAAC	TGGTCTTACA	1020
GTTTCTACAA	ATGCAAAACC	TAATGAAGTA	GTGTCTAGTC	TAGGCAGTCT	TTCAAGCAAT	1080
CCTTCTTCTT	TAACGACAAG	TAAGGAGCTC	TCTTCAGCAT	CTGATGGTTA	TATTTTTAAT	1140
CCAAAAGATA	TCGTTGAAGA	AACGGCTACA	GCTTATATTG	TAAGACATGG	TGATCATTTC	1200
CATTACATTC	CAAAATCAAA	TCAAATGGG	CAACCGACTC	TTCCAAACAA	TAGTCTAGCA	1260
ACACCTTCTC	CATCTCTTCC	AATCAATCCA	GGAACCTCAC	ATGAGAAACA	TGAAGAAGAT	1320
GGATACGGAT	TTGATGCTAA	TCGTATTATC	GCTGAAGATG	AATCAGGTTT	TGTCATGAGT	1380
CACGGAGACC	ACAATCATT	TTTCTTCAAG	AAGGACTTGA	CAGAAGAGCA	AATTAAGGCT	1440
GCGCAAAAAC	ATTTAGAGGA	AGTTAAACT	AGTCATAATG	GATTAGATT	TTTGTCTAT	1500
CATGAACAGG	ATTATCCAGG	TAATGCCAAA	GAAATGAAAG	ATTTAGATAA	AAAAATCGAA	1560
GAAAAAATG	CTGGCATTAT	GAAACAATAT	GGTGTCAAAC	GTGAAAGTAT	TGTCGTGAAT	1620
AAAGAAAAAA	ATCGGATTAT	TTATCCGCAT	GGAGATCACC	ATCATGCAGA	TCCGATTGAT	1680
GAACATAAAC	CGGTTGGAAT	TGGTCATTCT	CACAGTAACT	ATGAACTGTT	TAAACCCGAA	1740
GAAGGAGTTG	CTAAAAAAGA	AGGGAATAAA	GTTTATACTG	GAGAAGAATT	AACGAATGTT	1800
GTTAATTTGT	TAAAAAATAG	TACGTTTAAT	AATCAAAACT	TTACTCTAGC	CAATGGTCAA	1860
AAACGCGTTT	CTTTTAGTTT	TCCGCCTGAA	TTGGAGAAAA	AATTAGGTAT	CAATATGCTA	1920
GTAAAATTAA	TAACACCAGA	TGGAAAAGTA	TTGGAGAAAG	TATCTGGTAA	AGTATTTGGA	1980
GAAGGAGTAG	GGAATATTGC	AACTTTGAA	TTAGATCAAC	CTTATTTACC	AGGACAAACA	2040
TTTAAGTATA	CTATCGCTTC	AAAAGATTAT	CCAGAAGTAA	GTTATGATGG	TACATTTACA	2100
GTTCCAACCT	CTTTAGCTTA	CAAATGGCC	AGTCAAACGA	TTTTCTATCC	TTTCCATGCA	2160
GGGGATACCT	ATTTAAGAGT	GAACCCCTCA	TTTGCAAGTGC	CTAAAGGAAC	TGATGCTTTA	2220
GTCAGAGTGT	TTGATGAATT	TCATGGAAAT	GCTTATTTAG	AAAATAACTA	TAAAGTTGGT	2280
GAAATCAAAT	TACCGATTCC	GAAATTAAC	CAAGGAACAA	CCAGAACGGC	CGGAAATAAA	2340
ATTCTGTAA	CCTTCATGGC	AAATGCTTAT	TTGGACAATC	AATCGACTTA	TATTGTGGAA	2400
GTACCTATCT	TGGAAAAAGA	AAATCAAAC	GATAAACCAA	GTATTCTACC	ACAATTTAAA	2460
AGGAATAAAG	CACAAGAAAA	CTCAAACTT	GATGAAAAGG	TAGAAGAACC	AAAGACTAGT	2520
GAGAAGGTAG	AAAAAGAAAA	ACTTTCTGAA	ACTGGGAATA	GTACTAGTAA	TTCAACGTTA	2580
GAAGAAGTTC	CTACAGTGGG	TCCTGTACAA	GAAAAAGTAG	CAAAATTTGC	TGAAAGTTAT	2640
GGGATGAAGC	TAGAAAATGT	CTTGTTTAAT	ATGGACGGAA	CAATTGAATT	ATATTTACCA	2700
TCAGGAGAAG	TCATTAAAAA	GAATATGGCA	GATTTTACAG	GAGAAGCACC	TCAAGGAAAT	2760
GGTGAAAATA	AACCATCTGA	AAATGGAAAA	GTATCTACTG	GAACAGTTGA	GAACCAACCA	2820
ACAGAAAATA	AACCAGCAGA	TTCTTTACCA	GAGGCACCAA	ACGAAAAACC	TGTAACCA	2880
GAAAACTCAA	CGGATAATGG	AATGTTGAAT	CCAGAAGGGA	ATGTGGGGAG	TGACCCTATG	2940
TTAGATCCAG	CATTAGAGGA	AGCTCCAGCA	GATGATCCTG	TACAAGAAAA	ATTAGAAAAA	3000
TTTACAGCTA	GTTACGGATT	AGGCTTAGAT	AGTGTTATAT	TCAATATGGA	TGGAACGATT	3060
GAATTAAGAT	TGCCAAGTGG	AGAAGTGATA	AAAAAGAATT	TATCTGATTT	CATAGCGTAA	3120

(SEQ ID NO: 1)

FIGURE 1

MKFSKKYIAA	GSAVIVSLSL	CAYALNQHRS	QENKDNRRVS	YVDGSQSSQK	50
SENLTDPQVS	QKEGIQAEQI	VIKITDQGYV	TSHGDHYHYY	NGKVPYDALF	100
SEELLMKDPN	YQLKDADIVN	EVKGGYIIKV	DGKYVYVLKD	AAHADNVRTK	150
DEINRQKQEH	VKDNEKVNSN	VAVARSQGRY	TTNDGYVFNP	ADIIEDTGNA	200
YIVPHGGHYH	YIPKSDLAS	ELAAAKAHLA	GKNMQPSQLS	YSSTASDNNT	250
QSVAKGSTSK	PANKSENLOS	LLKELYDSPS	AQRYSESDGL	VFDPAKIISR	300
TPNGVAIPHG	DHYHFIPYSK	LSALEEKIAR	MVPISGTGST	VSTNAKPNEV	350
VSSLGSLSSN	PSSLTTSKEL	SSASDGYIFN	PKDIVEETAT	AYIVRHGDHF	400
HYIPKSNQIG	QPTLPNNSLA	TPSPSLPINP	GTSHEKHEED	GYGFDANRII	450
AEDESGFVMS	HGDHNHYFFK	KDLTEEQIKA	AQKHLEEVKT	SHNGLDSLSS	500
HEQDYPGNAK	EMKDLDKKIE	EKIAGIMKQY	GVKRESIVVN	KEKNAIIPPH	550
GDHHHADPID	EHKPVGIGHS	HSNYELFKPE	EGVAKKEGNK	VYTGEELTNV	600
VNLLKNSTFN	NQNFTLANGQ	KRVSFSPFPE	LEKKLGINML	VKLITPDGKV	650
LEKVSQKVFQ	EGVGNIANFE	LDQPYLPGQT	FKYTIASKDY	PEVSYDGTFT	700
VPTSLAYKMA	SQTIFYPFHA	GDYLRVNPQ	FAVPKGTDAL	VRVFDEFHGN	750
AYLENNYKVG	EIKLPIPKLN	QGTTRTAGNK	IPVTFMANAY	LDNQSTYIVE	800
VPILEKENQT	DKPSILPQFK	RNKAQENSKL	DEKVEEPKTS	EKVEKEKLSE	850
TGNSTSNSTL	EEVPTVDPVQ	EKVAKFAESY	GMKLENVLFN	MDGTIELYLP	900
SGEVIKKNMA	DFTGEAPQGN	GENKPSENGK	VSTGTVENQP	TENKPADSLP	950
EAPNEKPVKP	ENSTDNGMLN	PEGNVGSDPM	LDPALEEAPA	VDPVQEKLEK	1000
FTASYGLGLD	SVIFNMGTI	ELRLPSGEVI	KKNLSDFIA	(SEQ ID NO: 2)	1039

FIGURE 2

ATGAAAATCA	ATAAAAAATA	TCTAGCTGGG	TCAGTAGCTA	CACTTGTTTT	AAGTGTCTGT	60
GCTTATGAAC	TAGGTTTGCA	TCAAGCTCAA	ACTGTAAAAG	AAAATAATCG	TGTTTCCTAT	120
ATAGATGGAA	AACAAGCGAC	GCAAAAAACG	GAGAATTTGA	CTCCTGATGA	GGTTAGCAAG	180
CGTGAAGGAA	TCAACGCCGA	ACAAATCGTC	ATCAAGATTA	CGGATCAAGG	TTATGTGACC	240
TCTCATGGAG	ACCATTATCA	TTACTATAAT	GGCAAGGTCC	CTTATGATGC	CATCATCAGT	300
GAAGAGCTCC	TCATGAAAGA	TCCGAATTAT	CAGTTGAAGG	ATTCAGACAT	TGTCAATGAA	360
ATCAAGGGTG	GTTATGTCAT	TAAGGTAAAC	GGTAAATACT	ATGTTTACCT	TAAGGATGCA	420
GCTCATGCCG	ATAATGTCCG	TACAAAAGAA	GAAATCAATC	GGCAAAAACA	AGAACATAGT	480
CAGCATCGTG	AAGGAGGGAC	TTCAGCAAAC	GATGGTGCGG	TAGCCTTTGC	ACG TTCACAG	540
GGACGCTACA	CCACAGATGA	TGGTTATATC	TTCAATGCAT	CTGATATCAT	CGAAGATACG	600
GGCGATGCGT	ATATCGTTCC	TCATGGAGAT	CATTACCATT	ACATTCCATA	GAATGAGTTA	660
TCAGCTAGCG	AGTTGGCTGC	TGCAGAAGCC	TTCTTATCTG	GTGCGGAAAA	TCTGTCAAAAT	720
TTAAGAACCT	ATCGCCGACA	AAATAGCGAT	AACACTCCAA	GAACAAACTG	GGTACCTTCT	780
GTAAGCAATC	CAGGAACTAC	AAATACTAAC	ACAAGCAACA	ACAGCAACAC	TAACAGTCAA	840
GCAAGTCAAA	GTAATGACAT	TGATAGTCTC	TTGAAACAGC	TCTACAAACT	GCCTTTGAGT	900
CAACGCCATG	TAGAATCTGA	TGGCCTTATT	TTGACCCAG	CGCAAATCAC	AAGTCGAACC	960
GCCAGAGGTG	TAGCTGTCCC	TCATGGTAAC	CATTACCACT	TTATCCCTTA	TGAACAAATG	1020
TCTGAATTGG	AAAAACGAAT	TGCTCGTATT	ATTCCCCTTC	GTTATCGTTC	AAACCATTGG	1080
GTACCAGATT	CAAGACCAGA	AGAACCAAGT	CCACAACCGA	CTCCAGAACC	TAGTCCAAGT	1140
CCGCAACCTG	CACCAAATCC	TCAACCAGCT	CCAAGCAATC	CAATTGATGA	GAAATTGGTC	1200
AAAGAAGCTG	TTGCAAAAAGT	AGGCGATGGT	TATGTCCTTG	AGGAGAAATG	AGTTTCTCGT	1260
TATATCCCAG	CCAAGAATCT	TTCAGCAGAA	ACAGCAGCAG	GCATTGATAG	CAAACCTGGCC	1320
AAGCAGGAAA	GTTTATCTCA	TAAGCTAGGA	GCTAAGAAAA	CTGACCTCCC	ATCTAGTGAT	1380
CGAGAATTTT	ACAATAAGGC	TTATGACTTA	CTAGCAAGAA	TTACCAAGA	TTTACTTGAT	1440
AATAAAGGTC	GACAAGTTGA	TTTTGAGGCT	TTGGATAACC	TGTTGGAACG	ACTCAAGGAT	1500
GTCTCAAGTG	ATAAAGTCAA	GTTAGTGGAT	GATATTCTTG	CCTTCTTAGC	TCCGATTCTG	1560
CATCCAGAAC	GTTTAGGAAA	ACCAAATGCG	CAAATTACCT	ACACTGATGA	TGAGATTCAA	1620
GTAGCCAAGT	TGGCAGGCAA	GTACACAACA	GAAGACGGTT	ATATCTTTGA	TCCTCGTGAT	1680
ATAACCAGTG	ATGAGGGGGA	TGCCTATGTA	ACTCCACATA	TGACCCATAG	CCACTGGATT	1740
AAAAAAGATA	GTTTGTCTGA	AGCTGAGAGA	GCGGCAGCCC	AGGCTTATGC	TAAAGAGAAA	1800
GGTTTGACCC	CTCCTTCGAC	AGACCATCAG	GATTTCAGGAA	ATACTGAGGC	AAAAGGAGCA	1860
GAAGCTATCT	ACAACCGCGT	GAAAGCAGCT	AAGAAGGTGC	CACTTGATCG	TATGCCTTAC	1920
AATCTTCAAT	ATACTGTAGA	AGTCAAAAAC	GGTAGTTTAA	TCATACCTCA	TTATGACCAT	1980
TACCATAACA	TCAAATTTGA	GTGGTTTGAC	GAAGGCCTTT	ATGAGGCACC	TAAGGGGTAT	2040
ACTCTTGAGG	ATCTTTTGGC	GACTGTCAAG	TACTATGTCTG	AACATCCAAA	CGAACGTCCG	2100
CATTGAGATA	ATGGTTTTGG	TAACGCTAGC	GACCATGTTT	AAAGAAACAA	AAATGGTCAA	2160
GCTGATACCA	ATCAAACGGA	AAAACCAAGC	GAGGAGAAAC	CTCAGACAGA	AAAACCTGAG	2220
GAAGAAACCC	CTCGAGAAAG	GAAACCACAA	AGCGAGAAAC	CAGAGTCTCC	AAAACCAACA	2280
GAGGAACCAG	AAGAAGAATC	ACCAGAGGAA	TCAGAAGAAC	CTCAGGTCTGA	GACTGAAAAG	2340
GTTGAAGAAA	AACTGAGAGA	GGCTGAAGAT	TTACTTGGA	AAATCCAGGA	TCCAATTATC	2400
AAGTCCAATG	CCAAAGAGAC	TCTCACAGGA	TTAAAAATA	ATTTACTATT	TGGCACCCAG	2460
GACAACAATA	CTATTATGGC	AGAAGCTGAA	AAACTATTGG	CTTTATTAAA	GGAGAGTAAG	2520
TAA	(SEQ ID NO: 3)					2523

FIGURE 3

MKINKKYL	AG	SVATLVLSVC	AYELGLHQAQ	TVKENNRVSY	IDGKQATQKT	50		
ENLTPDEV	SK	REGINAEQIV	IKITDQGYVT	SHGDHYHYYN	GKVPYDAIIS	100		
EELLMKDP	NY	QLKDSDIVNE	IKGGYVIKVN	GKYYVYLKDA	AHADNVRTKE	150		
EINRQKQEH	S	QHREGGTSAN	DGAVAFARSQ	GRYTTDDGYI	FNASDIIEDT	200		
GDAYIVPHGD		HYHYIPKNEL	SASELAAAEA	FLSGRENLSN	LRTYRRQNSD	250		
NTPRTNWVPS		VSNPGTTNTN	TSNNSNTNSQ	ASQSNIDISL	LKQLYKLPLS	300		
QRHVESDGLI		FDPAQITSRT	ARGVAVPHGN	HYHFIPYEQM	SELEKRIARI	350		
IPLRYRSNH	W	VPDSRPEEPS	PQPTPEPSPS	PQPAPNPQPA	PSNPIDEKLV	400		
KEAVRKVG	D	YVFEENGVS	R	YIPAKNLSAE	TAAGIDSKLA	KQESLSHKL	G	450
AKKTDLPSSD		REFYNKAYDL	LARIHQDLLD	NKGRQVDFEA	LDNLLERLKD	500		
VSSDKVKLV	D	DILAFLAPIR	HPERLGKPN	A	QITYTDDEIQ	VAKLAGKYTT	550	
EDGYIFDPRD		ITSDEGDAYV	TPHMTSHSWI	KKDSLSEAER	AAAQAYAKEK	600		
GLTPPSTDHQ		DSGNTEAKGA	EAIYNRVKAA	KKVPLDRMPY	NLQYTVEVKN	650		
GSLIIPHYDH		YHNIKFEWFD	EGLYEAPKGY	TLEDLLATVK	YYVEHPNERP	700		
HSDNGFGNAS		DHVQRNKNGQ	ADTNQTEKPS	EEKPQTEKPE	EETPREEKPO	750		
SEKPESPKPT		EEPEEESPEE	SEEPQVETEK	VEEKLREAED	LLGKIQDPII	800		
KSNAKETLTG		LKNLLFGTQ	DNNTIMAEAE	KLLALLKESK	(SEQ ID NO: 4)	840		

FIGURE 4

ATGGAGAATA	TAGACATGTT	TAAATCAAAT	CATGAGCGAA	GAATGCGTTA	TTCCATTCGT	60
AAATTTAGTG	TAGGAGTAGC	TAGCGTAGCT	GTTGCCAGTC	TTTTTATGGG	AAGTGTTGTA	120
CATGCGACAG	AGAAAGAGGG	AAGTACCCAA	GCAGCCACTT	CTTTTAATAG	GGGAAATGGA	180
AGTCAGGCAG	AACAACGTGG	AGAACTCGAT	TTAGAACGAG	ATAAGGCAAT	GAAAGCGGTC	240
AGTGAATATG	TAGGAAAAAT	GGTGAGAGAT	GCCTATGTAA	AATCAGATAG	AAAACGACAT	300
AAAAATACTG	TAGCTCTAGT	TAACCAAGTTG	GGAAACATTA	AGAACAGGTA	TTTGAATGAA	360
ATAGTTCATT	CAACCTCAA	AAGCCAACTA	CAGGAACTGA	TGATGAAGAG	TCAATCAGAA	420
GTAGATGAAG	CTGTGTCTAA	ATTTGAAAAAG	GACTCATTTT	CTTCGTCAAG	TTCAGGATCC	480
TCCACTAAAC	CAGAAACTCC	GCAGCCGGAA	AATCCAGAGC	ATCAAAAACC	AACAACCTCCA	540
TCTCCGGATA	CCAAACCAAG	CCCTCAACCA	GAAGGCAAGA	AACCAAGCGT	ACCAGACATT	600
AATCAGGAAA	AAGAAAAAGC	TAAGCTTGCT	GATAGTAACCT	ACATGAGCAA	GATTTTAGAT	660
GATATACAAA	AACATCATCT	GCAGAAAGAA	AAACATCGTC	AGATTGTTGC	TCTTATTAAG	720
GAGCTTGATG	AGCTTAAAAA	GCAAGCTCTT	TCTGAAATTG	ATAATGTAAA	TACCAAAGTA	780
GAAATTGAAA	ATACAGTCCA	CAAGATATTT	GCAGACATGG	ATGCAGTTGT	GACTAAATTC	840
AAAAAAGGCT	TAACTCAGGA	CACACCAAAA	GAACCAGGTA	ACAAAAAACC	ATCTGCTCCA	900
AAACCAGGTA	TGCAACCAAG	TCCTCAACCA	GAGGTAAAC	CGCAGCTGGA	AAAACCAAAA	960
CCAGAGGTTA	AACCGCAACC	AGAAAAACCA	AAACCAGAGG	TTAAACCGCA	GCCGGAAAAA	1020
CCAAAACCA	AGGTAAACC	GCAGCCGGAA	AAACCAAAAC	CAGAGGTAA	ACCGCAGCCG	1080
GAAAAACCAA	AACCAGAGGT	TAAACCGCAG	CCGGAAAAAC	CAAAACCAGA	GGTTAAACCG	1140
CAGCCGGAAA	AACCAAAACC	AGAGGTAA	CCGCAGCCGG	AAAAACCAA	ACCAGAGGTT	1200
AAACCGCAGC	CGGAAAAACC	AAAACCAGAG	GTAAACCGC	AGCCGGAAAA	ACCAAAACCA	1260
GAGGTAAAC	CGCAGCCGGA	AAAACCAAAA	CCAGAGGTAA	AACCGCAACC	AGAAAAACCA	1320
AAACCAGAGG	TTAAACCGCA	ACCAGAAAAA	CCAAAACCA	ATAATAGCAA	GCCACAAGCA	1380
GATGATAAGA	AGCCATCAAC	TACAAATAAT	TTAAGCAAGG	ACAAGCAACC	TTCTAACCAA	1440
GCTTCAACAA	ACGAAAAAGC	AACAAATAAA	CCGAAGAAGT	CATTGCCATC	AACGGATCT	1500
ATTTCAAATC	TAGCACTTGA	AATTGCAGGT	CTTCTTACCT	TGGCGGGGGC	AACCATCTT	1560
GCTAAGAAAA	GAATGAAATA	G	(SEQ ID NO: 5)			1581

FIGURE 5

MENIDMFKSN	HERRMYSIR	KFSVGVASVA	VASLFMGSVV	HATEKEGSTQ	50
AATSFNRNGG	SQAEQRGELD	LERDKAMKAV	SEYVGKMVRD	AYVKSDRKRH	100
KNTVALVNQL	GNIKNRYLNE	IVHSTSKSQL	QELMMKSQSE	VDEAVSKFEK	150
DSFSSSSSGS	STKPETPQPE	NPEHQKPTTP	SPDTKPSPQP	EGKKPSVPDI	200
NQEKEKAKLA	VVTYMSKILD	DIQKHHLQKE	KHRQIVALIK	ELDELKKQAL	250
SEIDNVNTKV	EIENTVHKIF	ADMDAVVTKF	KKGLTQDTPK	EPGNKKPSAP	300
KPGMQPSPQP	EVKPQLEKPK	PEVKPQPEKP	KPEVKPQPEK	PKPEVKPQPE	350
KPKPEVKPQP	EKPKPEVKPQ	PEKPKPEVKP	QPEKPKPEVK	PQPEKPKPEV	400
KPQPEKPKPE	VKPQPEKPKP	EVKPQPEKPK	PEVKPQPEKP	KPEVKPQPEK	450
PKPDNSKPQA	DDKKPSTTNN	LSKDKQPSNQ	ASTNEKATNK	PKKSLPSTGS	500
ISNLALEIAG	LLTLGATIL	AKKRMK	(SEQ ID NO: 6)	526	

FIGURE 6

ATGAAATTTA	GTAAAAAATA	TATAGCAGCT	GGATCAGCTG	TTATCGTATC	CTTGAGTCTA	60
TGTGCCTATG	CACTAAACCA	GCATCGTTTCG	CAGGAAAATA	AGGACAATAA	TCGTGTCTCT	120
TATGTGGATG	GCAGCCAGTC	AAGTCAGAAA	AGTGAAACT	TGACACCAGA	CCAGGTTAGC	180
CAGAAAGAAG	GAATTCAGGC	TGAGCAAATT	GTAATCAAAA	TTACAGATCA	GGGCTATGTA	240
ACGTCACACG	GTGACCACTA	TCATTACTAT	AATGGGAAAG	TTCCTTATGA	TGCCCTCTTT	300
AGTGAAGAAC	TCTTGATGAA	GGATCCAAAC	TATCAACTTA	AAGACGCTGA	TATTGTCAAT	360
GAAGTCAAGG	GTGGTTATAT	CATCAAGGTC	GATGGAAAAT	ATTATGTCTA	CCTGAAAGAT	420
GCAGCTCATG	CTGATAATGT	TCGAACTAAA	GATGAAATCA	ATCGTCAAAA	ACAAGAACAT	480
GTCAAAGATA	ATGAGAAGGT	TAACTCTAAT	GTTGCTGTAG	CAAGGTCTCA	GGGACGATAT	540
ACGACAAATG	ATGGTTATGT	CTTTAATCCA	GCTGATATTA	TCGAAGATAC	GGGTAATGCT	600
TATATCGTTC	CTCATGGAGG	TCATATCAC	TACATCCCA	AAAGCGATTT	ATCTGCTAGT	660
GAATTAGCAG	CAGCTAAAGC	ACATCTGGCT	GGAAAAATA	TGCAACCGAG	TCAGTTAAGC	720
TATTCTTCAA	CAGCTAGTGA	CAATAACACG	CAATCTGTAG	CAAAAGGATC	AACTAGCAAG	780
CCAGCAAATA	AATCTGAAAA	TCTCCAGAGT	CTTTTGAAGG	AACTCTATGA	TTCACCTAGC	840
GCCCAACGTT	ACAGTGAATC	AGATGGCCTG	GTCTTTGACC	CTGCTAAGAT	TATCAGTCGT	900
ACACCAAATG	GAGTTGCGAT	TCCGCATGGC	GACCATTACC	ACTTTATTCC	TTACAGCAAG	960
CTTTCTGCTT	TAGAAGAAAA	GATTGCCAGA	ATGGTGCCTA	TCAGTGGAAC	TGGTTCTACA	1020
GTTTCTACAA	ATGCAAAACC	TAATGAAGTA	GTGTCTAGTC	TAGGCAGTCT	TTCAAGCAAT	1080
CCTTCTTCTT	TAACGACAAG	TAAGGAGCTC	TCTTCAGCAT	CTGATGGTTA	TATTTTAAAT	1140
CCAAAAGATA	TCGTTGAAGA	AACGGCTACA	GCTTATATTG	TAAGACATGG	TGATCATTTT	1200
CATTACATTC	CAAAATCAAA	TCAAATTGGG	CAACCGACTC	TTCCAAACAA	TAGTCTAGCA	1260
ACACCTTCTC	CATCTCTTCC	AATCAATCCA	GGAAC TTCAC	ATGAGAAACA	TGAAGAAGAT	1320
GGATACGGAT	TTGATGCTAA	TCGTATTATC	GCTGAAGATG	AATCAGGTTT	TGTCATGAGT	1380
CACGGAGACC	ACAATCATTA	TTTCTTCAAG	AAGGACTTGA	CAGAAGAGCA	AATTAAGGTG	1440
CGCAAAAACA	TTTAG	(SEQ ID NO: 7)				1455

FIGURE 7

MKFSKKYIAA	GSAVIVLSL	CAYALNQHRS	QENKDNRRVS	YVDGSQSSQK	50
SENLTDPQVS	QKEGIAEQI	VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	100
SEELLMKDPN	YQLKDADIVN	EVKGGYIIKV	DGKYVYVLKD	AAHADNVRTK	150
DEINRQKQEH	VKDNEKVNSN	VAVARSQGRY	TTNDGYVFNP	ADIIEDTGNA	200
YIVPHGGHYH	YIPKSDLAS	ELAAAKAHLA	GKNMQPSQLS	YSSTASDNNT	250
QSVAKGSTSK	PANKSENLOS	LLKELYDSPA	AQRYSEDGL	VFDPAKIISR	300
TPNGVAIPHG	DHYHFIPYSK	LSALEEKIAR	MVPISGTGST	VSTNAKPNEV	350
VSSLGSLSSN	PSSLTTSKEL	SSASDGYIFN	PKDIVEETAT	AYIVRHGDHF	400
HYIPKSNQIG	QPTLPNNSLA	TPSPSLPINP	GTSHEKHEED	GYGFDANRII	450
AEDESGFVMS	HGDHNYFFK	KDLTEEQIKV	RKNI	(SEQ ID NO: 8)	484

FIGURE 8

ATGAAAGATT	TAGATAAAAA	AATCGAAGAA	AAAATTGCTG	GCATTATGAA	ACAATATGGT	60
GTCAAACGTG	AAAGTATTGT	CGTGAATAAA	GAAAAAAATG	CGATTATTTA	TCCGCATGGA	120
GATCACCATC	ATGCAGATCC	GATTGATGAA	CATAAACCGG	TTGGAATTGG	TCATTCTCAC	180
AGTAACTATG	AACTGTTTAA	ACCCGAAGAA	GGAGTTGCTA	AAAAAGAAGG	GAATAAAGTT	240
TATACTGGAG	AAGAATTAAC	GAATGTTGTT	AATTTGTTAA	AAAATAGTAC	GTTTAATAAT	300
CAAACTTTTA	CTCTAGCCAA	TGGTCAAAA	CGCGTTTCTT	TTAGTTTTCC	GCCTGAATTG	360
GAGAAAAAAT	TAGGTATCAA	TATGCTAGTA	AAATTAATAA	CACCAGATGG	AAAAGTATTG	420
GAGAAAGTAT	CTGGTAAAGT	ATTTGGAGAA	GGAGTAGGGA	ATATTGCAA	CTTTGAATTA	480
GATCAACCTT	ATTTACCAGG	ACAAACATTT	AAGTATACTA	TCGCTTCAA	AGATTATCCA	540
GAAGTAAGTT	ATGATGGTAC	ATTTACAGTT	CCAACCTCTT	TAGCTTACAA	AATGGCCAGT	600
CAAACGATTT	TCTATCCTTT	CCATGCAGGG	GATACTTATT	TAAGAGTGAA	CCCTCAATTT	660
GCAGTGCCTA	AAGGAAGTGA	TGCTTTAGTC	AGAGTGTTTG	ATGAATTTCA	TGGAAATGCT	720
TATTTAGAAA	ATAACTATAA	AGTTGGTGAA	ATCAAATTAC	CGATTCCGAA	ATTAAACCAA	780
GGAACAACCA	GAACGGCCGG	AAATAAAATT	CCTGTAACTT	TCATGGCAA	TGCTTATTTG	840
GACAATCAAT	CGACTTATAT	TGTGGAAGTA	CCTATCTTGG	AAAAAGAAAA	TCAAACCTGAT	900
AAACCAAGTA	TTCTACCACA	ATTTAAAAGG	AATAAAGCAC	AAGAAAACTC	AAAACCTTGAT	960
GAAAAGGTAG	AAGAACCAAA	GACTAGTGAG	AAGGTAGAAA	AAGAAAAACT	TTCTGAAACT	1020
GGGAATAGTA	CTAGTAATTC	AACGTTAGAA	GAAAGTTCTA	CAGTGGATCC	TGTACAAGAA	1080
AAAGTAGCAA	AATTTGCTGA	AAGTTATGGG	ATGAAGCTAG	AAAATGTCTT	GTTTAATATG	1140
GACGGAACAA	TTGAATTATA	TTTACCATCA	GGAGAAGTCA	TTAAAAAGAA	TATGGCAGAT	1200
TTTACAGGAG	AAGCACCTCA	AGGAAATGGT	GAAAATAAAC	CATCTGAAAA	TGAAAAAGTA	1260
TCTACTGGAA	CAGTTGAGAA	CCAACCAACA	GAAAATAAAC	CAGCAGATTC	TTTACCAGAG	1320
GCACCAAACG	AAAAACCTGT	AAAACCAGAA	AACTCAACGG	ATAATGGAAT	GTTGAATCCA	1380
GAAGGGAATG	TGGGGAGTGA	CCCTATGTTA	GATCCAGCAT	TAGAGGAAGC	TCCAGCAGTA	1440
GATCCTGTAC	AAGAAAAATT	AGAAAAATTT	ACAGCTAGTT	ACGGATTAGG	CTTAGATAGT	1500
GTTATATTCA	ATATGGATGG	AACGATTGAA	TTAAGATTGC	CAAGTGGAGA	AGTGATAAAA	1560
AAGAATTTAT	CTGATTTTCAT	AGCGTAA	(SEQ ID NO: 9)			1587

FIGURE 9

MKDLDKKIEE	KIAGIMKQYG	VKRESIVVNK	EKNAIYYPHG	DHHHADPIDE	50
HKPVGIGHSH	SNYELFKPEE	GVAKKEGNKV	YTGEELTNVV	NLLKNSTFNN	100
QNFTLANGQK	RVSFSPPEL	EKKLGINMLV	KLITPDGKVL	EKVSGKVFG	150
GVGNIANFEL	DQPYLPGQTF	KYTIASKDYP	EVSYDGTFTV	PTSLAYKMAS	200
QTIFYPFHAG	DTYLRVNPQF	AVPKGTDALV	RVFDEFHGNA	YLENNYKVGE	250
IKLPIPKLNQ	GTTRTAGNKI	PVTFMANAYL	DNQSTYIVEV	PILEKENQTD	300
KPSILPQFKR	NKAQENSKLD	EKVEEPTSE	KVEKEKLSET	GNSTSNSTLE	350
EVPTVDPVQE	KVAKFAESYG	MKLENVLFNM	DGTIELYLPS	GEVIKKNMAD	400
FTGEAPQGNG	ENKPSENGKV	STGTVENQPT	ENKPADSLPE	APNEKPVKPE	450
NSTDNGMLNP	EGNVGSDPML	DPALEEAPAV	DPVQEKLEKF	TASYGLGLDS	500
VIFNMDGTIE	LRLPSGEVIK	KNLSDFIA	(SEQ ID NO: 10)		528

FIGURE 10

BVH3 WU2	1	CAYALNQHRSQENKDNMRVSYVDGSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYV	60
BVH3 RX1	1	CAYALNQHRSQENKDNMRVSYVDGSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYV	60
BVH3 JNR7/87	1	CAYALNQHRSQENKDNMRVSYVDGSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYV	60
BVH3 SP64	1	CAYALNQHRSQENKDNMRVSYVDGSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYV	60
BVH3 P4241	1	CAYALNQHRSQENKDNMRVSYVDGSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYV	60
BVH3 A66	1	CAYALNQHRSQENKDNMRVSYVDGSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYV	60

BVH3 WU2	61	TSHGDHYHYNGKVPYDALFSEELMKDPNYQLKDADIVNEVKGYYIIKVDGKYYVYLKD	120
BVH3 RX1	61	TSHGDHYHYNGKVPYDALFSEELMKDPNYQLKDADIVNEVKGYYIIKVDGKYYVYLKD	120
BVH3 JNR7/87	61	TSHGDHYHYNGKVPYDALFSEELMKDPNYQLKDADIVNEVKGYYIIKVDGKYYVYLKD	120
BVH3 SP64	61	TSHGDHYHYNGKVPYDALFSEELMKDPNYQLKDADIVNEVKGYYIIKVDGKYYVYLKD	120
BVH3 P4241	61	TSHGDHYHYNGKVPYDALFSEELMKDPNYQLKDADIVNEVKGYYIIKVDGKYYVYLKD	120
BVH3 A66	61	TSHGDHYHYNGKVPYDALFSEELMKDPNYQLKDADIVNEVKGYYIIKVDGKYYVYLKD	120

BVH3 WU2	121	AAHADNVRTKDEINRQKQEHVKDNEKVNNSNVAVARSQGRYTTNDGYVFPADIIEDTGNA	180
BVH3 RX1	121	AAHADNVRTKDEINRQKQEHVKDNEKVNNSNVAVARSQGRYTTNDGYVFPADIIEDTGNA	180
BVH3 JNR7/87	121	AAHADNVRTKDEINRQKQEHVKDNEKVNNSNVAVARSQGRYTTNDGYVFPADIIEDTGNA	180
BVH3 SP64	121	AAHADNVRTKDEINRQKQEHVKDNEKVNNSNVAVARSQGRYTTNDGYVFPADIIEDTGNA	180
BVH3 P4241	121	AAHADNVRTKDEINRQKQEHVKDNEKVNNSNVAVARSQGRYTTNDGYVFPADIIEDTGNA	180
BVH3 A66	121	AAHADNVRTKDEINRQKQEHVKDNEKVNNSNVAVARSQGRYTTNDGYVFPADIIEDTGNA	180

BVH3 WU2	181	YIVPHRGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNNTQSVAKGSTSK	240
BVH3 RX1	181	YIVPHRGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNNTQSVAKGSTSK	240
BVH3 JNR7/87	181	YIVPHRGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNNTQSVAKGSTSK	240
BVH3 SP64	181	YIVPHRGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNNTQSVAKGSTSK	240
BVH3 P4241	181	YIVPHRGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNNTQSVAKGSTSK	240
BVH3 A66	181	YIVPHRGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNNTQSVAKGSTSK	240

BVH3 WU2	241	PANKSENLSLLKELYDSPAQRYSSESDGLVFDPAKII SRTPNGVAIPHGDHYHFIPYSK	300
BVH3 RX1	241	PANKSENLSLLKELYDSPAQRYSSESDGLVFDPAKII SRTPNGVAIPHGDHYHFIPYSK	300
BVH3 JNR7/87	241	PANKSENLSLLKELYDSPAQRYSSESDGLVFDPAKII SRTPNGVAIPHGDHYHFIPYSK	300
BVH3 SP64	241	PANKSENLSLLKELYDSPAQRYSSESDGLVFDPAKII SRTPNGVAIPHGDHYHFIPYSK	300
BVH3 P4241	241	PANKSENLSLLKELYDSPAQRYSSESDGLVFDPAKII SRTPNGVAIPHGDHYHFIPYSK	300
BVH3 A66	241	PANKSENLSLLKELYDSPAQRYSSESDGLVFDPAKII SRTPNGVAIPHGDHYHFIPYSK	300

BVH3 WU2	301	LSALEEKIARMVPISGTGSTVSTNAKPNEVVSSLGSLSSNPSSLTTSKELSSASDGYIFN	360
BVH3 RX1	301	LSALEEKIARRVPI SGTGSTVSTNAKPNEVVSSLGSLSSNPSSLTTSKELSSASDGYIFN	360
BVH3 JNR7/87	301	LSALEEKIARMVPISGTGSTVSTNAKPNEVVSSLGSLSSNPSSLTTSKELSSASDGYIFN	360
BVH3 SP64	301	LSALEEKIARMVPISGTGSTVSTNAKPNEVVSSLGSLSSNPSSLTTSKELSSASDGYIFN	360
BVH3 P4241	301	LSALEEKIARMVPISGTGSTVSTNAKPNEVVSSLGSLSSNPSSLTTSKELSSASDGYIFN	360
BVH3 A66	301	LSALEEKIARMVPISGTGSTVSTNAKPNEVVSSLGSLSSNPSSLTTSKELSSASDGYIFN	360

BVH3 WU2	361	PKDIVEETATAYIVRHGDHPHYIPKSNQIGQPTLPNNSLATPSPSLPINPGTSHEKHEED	420
BVH3 RX1	361	PKDIVEETATAYIVRHGDHPHYIPKSNQIGQPTLPNNSLATPSPSLPINPGTSHEKHEED	420
BVH3 JNR7/87	361	PKDIVEETATAYIVRHGDHPHYIPKSNQIGQPTLPNNSLATPSPSLPINPGTSHEKHEED	420
BVH3 SP64	361	PKDIVEETATAYIVRHGDHPHYIPKSNQIGQPTLPNNSLATPSPSLPINPGTSHEKHEED	420
BVH3 P4241	361	PKDIVEETATAYIVRHGDHPHYIPKSNQIGQPTLPNNSLATPSPSLPINPGTSHEKHEED	420
BVH3 A66	361	PKDIVEETATAYIVRHGDHPHYIPKSNQIGQPTLPNNSLATPSPSLPINPGTSHEKHEED	420

BVH3 WU2	421	GYGFDANRIIAEDESGFVMSHGDNHNYFFKKDLTEEQIKAAQKHLEEVKTSHNGLDSLSS	480
BVH3 RX1	421	GYGFDANRIIAEDESGFIMSHGNHNYFFKKDLTEEQIKAAQKHLEEVKTSHNGLDSLSS	480
BVH3 JNR7/87	421	GYGFDANRIIAEDESGFVMSHGDNHNYFFKKDLTEEQIKAAQKHLEEVKTSHNGLDSLSS	480
BVH3 SP64	421	GYGFDANRIIAEDESGFVMSHGDNHNYFFKKDLTEEQIKAAQKHLEEVKTSHNGLDSLSS	480
BVH3 P4241	421	GYGFDANRIIAEDESGFVMSHGDNHNYFFKKDLTEEQIKAAQKHLEEVKTSHNGLDSLSS	480
BVH3 A66	421	GYGFDANRIIAEDESGFVMSHGDNHNYFFKKDLTEEQIKAAQKHLEEVKTSHNGLDSLSS	480

BVH3 WU2	481	HEQDYPSNAKEMKDLKKIEEKIAGINKQYGVKRESIVVNKEKNAIYPHGDHHHADPID	540

BVH3 RX1	481	HEQDYPSNAKEMKDLDDKKIEEKIAGIMKQYGVKRESIVVNKEKNAIYPHGDHHDADPID	540
BVH3 JNR7/87	481	HEQDYPSNAKEMKDLDDKKIEEKIAGIMKQYGVKRESIVVNKEKNAIYPHGDHHDADPID	540
BVH3 SP64	481	HEQDYPSNAKEMKDLDDKKIEEKIAGIMKQYGVKRESIVVNKEKNAIYPHGDHHDADPID	540
BVH3 P4241	481	HEQDYPSNAKEMKDLDDKKIEEKIAGIMKQYGVKRESIVVNKEKNAIYPHGDHHDADPID	540
BVH3 A66	481	HEQDYPSNAKEMKDLDDKKIEEKIAGIMKQYGVKRESIVVNKEKNAIYPHGDHHDADPID	540

BVH3 WU2	541	EHKPVGIGHSHSNYELFKPEEGVAKKEGNKVYTGEELTNVVNLLKNSTFNNQNFTLANGQ	600
BVH3 RX1	541	EHKPVGIGHSHSNYELFKPEEGVAKKEGNKVYTGEELTNVVNLLKNSTFNNQNFTLANGQ	600
BVH3 JNR7/87	541	EHKPVGIGHSHSNYELFKPEEGVAKKEGNKVYTGEELTNVVNLLKNSTFNNQNFTLANGQ	600
BVH3 SP64	541	EHKPVGIGHSHSNYELFKPEEGVAKKEGNKVYTGEELTNVVNLLKNSTFNNQNFTLANGQ	600
BVH3 P4241	541	EHKPVGIGHSHSNYELFKPEEGVAKKEGNKVYTGEELTNVVNLLKNSTFNNQNFTLANGQ	600
BVH3 A66	541	EHKPVGIGHSHSNYELFKPEEGVAKKEGNKVYTGEELTNVVNLLKNSTFNNQNFTLANGQ	600

BVH3 WU2	601	KRVSFSPFPELEKKLGINMLVKLITPDGKVLEKVSQKVFGEVGNIANFELDQPYLPGQT	660
BVH3 RX1	601	KRVSFSPFPELEKKLGINMLVKLITPDGKVLEKVSQKVFGEVGNIANFELDQPYLPGQT	660
BVH3 JNR7/87	601	KRVSFSPFPELEKKLGINMLVKLITPDGKVLEKVSQKVFGEVGNIANFELDQPYLPGQT	660
BVH3 SP64	601	KRVSFSPFPELEKKLGINMLVKLITPDGKVLEKVSQKVFGEVGNIANFELDQPYLPGQT	660
BVH3 P4241	601	KRVSFSPFPELEKKLGINMLVKLITPDGKVLEKVSQKVFGEVGNIANFELDQPYLPGQT	660
BVH3 A66	601	KRVSFSPFPELEKKLGINMLVKLITPDGKVLEKVSQKVFGEVGNIANFELDQPYLPGQT	660

BVH3 WU2	661	FKYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFAVPKGTDAL	720
BVH3 RX1	661	FKYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFAVPKGTDAL	720
BVH3 JNR7/87	661	FKYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFAVPKGTDAL	720
BVH3 SP64	661	FKYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFAVPKGTDAL	720
BVH3 P4241	661	FKYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFAVPKGTDAL	720
BVH3 A66	661	FKYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFAVPKGTDAL	720

BVH3 WU2	721	VRVFDEFHGNAYLENNYKVGEIKLPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVE	780
BVH3 RX1	721	VRVFDEFHGNAYLENNYKVGEIKLPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVE	780
BVH3 JNR7/87	721	VRVFDEFHGNAYLENNYKVGEIKLPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVE	780
BVH3 SP64	721	VRVFDEFHGNAYLENNYKVGEIKLPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVE	780
BVH3 P4241	721	VRVFDEFHGNAYLENNYKVGEIKLPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVE	780
BVH3 A66	721	VRVFDEFHGNAYLENNYKVGEIKLPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVE	780

BVH3 WU2	781	VPILEKENQTDKPSILPQFKRNKAQENSKFDEKVEEPTSEKVEKEKLSETGNSTSNSTL	840
BVH3 RX1	781	VPILEKENQTDKPSILPQFKRNKAQENSKLDEKVEEPTSEKVEKEKLSETGNSTSNSTL	840
BVH3 JNR7/87	781	VPILEKENQTDKPSILPQFKRNKAQENSKLDEKVEEPTSEKVEKEKLSETGNSTSNSTL	840
BVH3 SP64	781	VPILEKENQTDKPSILPQFKRNKAQENSKLDEKVEEPTSEKVEKEKLSETGNSTSNSTL	840
BVH3 P4241	781	VPILEKENQTDKPSILPQFKRNKAQENSKFDEKVEEPTSEKVEKEKLSETGNSTSNSTL	840
BVH3 A66	781	VPILEKENQTDKPSILPQFKRNKAQENSKFDEKVEEPTSEKVEKEKLSETGNSTSNSTL	840

BVH3 WU2	841	EEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSEGEVIKKNMADFTGEAPQGN	900
BVH3 RX1	841	EEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSEGEVIKKNMADFTGEAPQGN	900
BVH3 JNR7/87	841	EEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSEGEVIKKNMADFTGEAPQGN	900
BVH3 SP64	841	EEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSEGEVIKKNMADFTGEAPQGN	900
BVH3 P4241	841	EEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSEGEVIKKNMADFTGEAPQGN	900
BVH3 A66	841	EEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSEGEVIKKNMADFTGEAPQGN	900

BVH3 WU2	901	GENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGSDPM	960
BVH3 RX1	901	GENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGSDPM	960
BVH3 JNR7/87	901	GENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGSDPM	960
BVH3 SP64	901	GENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGSDPM	960
BVH3 P4241	901	GENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGSDPM	960
BVH3 A66	901	GENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGSDPM	960

BVH3 WU2	961	LDPAL2EAPAVDPVQEKLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA	1019
BVH3 RX1	961	LDPAL2EAPAVDPVQEKLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA	1019
BVH3 JNR7/87	961	LDPAL2EAPAVDPVQEKLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA	1019
BVH3 SP64	961	LDPAL2EAPAVDPVQEKLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDFIA	1019
BVH3 P4241	961	LDPAL2EAPAVDPVQEKLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA	1019
BVH3 A66	961	LDPAL2EAPAVDPVQEKLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA	1019

FIGURE 11

BVH11-2 SP64	1	CSYELGRHQAGQVKKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11-2 JNR7/87	1	CSYELGRHQAGQVKKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11-2 P4241	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11-2 A66	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11-2 WU2	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11-2 Rx1	1	CSYELGRHQAGQVKKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 P4241	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 WU2	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 A66	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 Rx1	1	CSYELGRHQAGQVKKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 JNR7/87	1	CSYELGRHQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 SP63	1	CSYELGRHQAGQVKKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGY	60
BVH11 SP64	1	CAYELGLHQA-QTVKENNRVSYIDGKQATQKTENLTPDEVSKREGINAEQIVIKITDQGY	59

BVH11-2 SP64	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11-2 JNR7/87	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11-2 P4241	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11-2 A66	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11-2 WU2	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11-2 Rx1	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 P4241	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 WU2	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 A66	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 Rx1	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 JNR7/87	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 SP63	61	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	120
BVH11 SP64	60	VTSHGDHYHYNGKVPYDAI ISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYVK	119

BVH11-2 SP64	121	DAAHADNIRTKEEIKRQKQEHSHNHNSRA---DNAVAAARAQGRYTTDDGYIFNASDIE	177
BVH11-2 JNR7/87	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11-2 P4241	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11-2 A66	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11-2 WU2	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11-2 Rx1	121	DAAHADNIRTKEEIKRQKQERSHNSRA---DNAVAAARAQGRYTTDDGYIFNASDIE	177
BVH11 P4241	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11 WU2	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11 A66	121	DAAHADNIRTKEEIKRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	178
BVH11 Rx1	121	DAAHADNIRTKEEIKRQKQERSHNSRA---DNAVAAARAQGRYTTDDGYIFNASDIE	177
BVH11 JNR7/87	121	DAAHADNIRTKEEIKRQKQERSHNSRA---DNAVAAARAQGRYTTDDGYIFNASDIE	177
BVH11 SP63	121	DAAHADNIRTKEEIKRQKQERSHNSRA---DNAVAAARAQGRYTTDDGYIFNASDIE	177
BVH11 SP64	120	DAAHADNVRTKEBINRQKQEHSHNHGGGSN--DQAVVAARAQGRYTTDDGYIFNASDIE	179

BVH11-2 SP64	178	DTGDAYIVPHGDHYHYIPKNELSAASELAAAEAYWNGKQGSRPSSSSSYNANPAQPRLSEN	237
BVH11-2 JNR7/87	179	DTGDAYIVPHGDHYHYIPKNELSAASELAAAEAYWNGKQGSRPSSSSSYNANPAQPRLSEN	238
BVH11-2 P4241	179	DTGDAYIVPHGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	238
BVH11-2 A66	179	DTGDAYIVPHGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	238
BVH11-2 WU2	179	DTGDAYIVPRGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	238
BVH11-2 Rx1	178	DTGDAYIVPHGDHYHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	237
BVH11 P4241	179	DTGDAYIVPHGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	238
BVH11 WU2	179	DTGDAYIVPHGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	238
BVH11 A66	179	DTGDAYIVPHGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	238
BVH11 Rx1	178	DTGDAYIVPHGDHYHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	237
BVH11 JNR7/87	178	DTGDAYIVPHGDHYHYIPKSDLSASELAAAEAYWNGKQGSRPSSSSSYNANPAQPRLSEN	237
BVH11 SP63	178	DTGDAYIVPHGNHPHYIPKSDLSASELAAQAAYWNGKQGSRPSSSSSHNANPAQPRLSEN	237
BVH11 SP64	180	DTGDAYIVPHGDHYHYIPKNELSAASELAAAEFLSGRENLSNLRTYRRQNSDNTPRTNWV	239

BVH11-2 SP64	238	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	285
BVH11-2 JNR7/87	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11-2 P4241	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11-2 A66	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11-2 WU2	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11-2 Rx1	238	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	285
BVH11 P4241	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11 WU2	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11 A66	239	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	286
BVH11 Rx1	238	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	285
BVH11 JNR7/87	238	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	285
BVH11 SP63	238	HNLTVTPPTYHQ-----QGENISSLLRELYAKPLSERHVESDGLIFDPAQITS	285
BVH11 SP64	240	PSVSNPGTTNTNTSNNSTNSQASQSNIDSLLKQLYKLPLSQRHVESDGLIFDPAQITS	299

* * * * *

BVH11-2 SP64	286	RTARGVAVPHGNHYHFIPYEQMSELEKRIARIIPLYRSNHWVPDSRPEQSPQSTPEPS	345
BVH11-2 JNR7/87	287	RTARGVAVPHGNHYHFIPYEQMSELEKRIARIIPLYRSNHWVPDSRPEQSPQSTPEPS	346
BVH11-2 P4241	287	RTARGVAVPHGNHYHFIPYEQMSELEERARIIPLYRSNHWVPDSRPEQSPQ-----PS	342
BVH11-2 A66	287	RTARGVAVPHGNHYHFIPYEQMSELEERARIIPLYRSNHWVPDSRPEQSPQ-----PS	342
BVH11-2 WU2	287	RTARGVAVPHGNHYHFIPYEQMSELEERARIIPLYRSNHWVPDSRPEQSPQSTPEPS	345
BVH11-2 Rx1	286	RTANGVAVPHGDHYHFIPYSQLSPLEEKLARIIPLYRSNHWVPDSRPEQSPQ-----PS	342
BVH11 P4241	287	RTARGVAVPHGNHYHFIPYEQMSELEERARIIPLYRSNHWVPDSRPEQSPQSTPEPS	345
BVH11 WU2	287	RTARGVAVPHGNHYHFIPYEQMSELEERARIIPLYRSNHWVPDSRPEQSPQ-----PS	342
BVH11 A66	287	RTARGVAVPHGNHYHFIPYEQMSELEERARIIPLYRSNHWVPDSRPEQSPQ-----PS	342
BVH11 Rx1	286	RTANGVAVPHGDHYHFIPYSQLSPLEEKLARIIPLYRSNHWVPDSRPEQSPQSTPEPS	345
BVH11 JNR7/87	286	RTARGVAVPHGNHYHFIPYEQMSELEKRIARIIPLYRSNHWVPDSRPEQSPQSTPEPS	345
BVH11 SP63	286	RTARGVAVPHGNHYHFIPYSQMSELEERARIIPLYRSNHWVPDSRPEQSPQSTPEPS	345
BVH11 SP64	300	RTARGVAVPHGNHYHFIPYEQMSELEKRIARIIPLYRSNHWVPDSRPEEPSQPTPEPS	359

*** **

BVH11-2 SP64	346	PSLQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	405
BVH11-2 JNR7/87	347	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	406
BVH11-2 P4241	343	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	402
BVH11-2 A66	343	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	402
BVH11-2 WU2	343	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	402
BVH11-2 Rx1	346	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVPRIIPAKDLSAETAAGIDSK	405
BVH11 P4241	343	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	402
BVH11 WU2	343	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	402
BVH11 A66	343	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	402
BVH11 Rx1	346	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVPRIIPAKDLSAETAAGIDSK	405
BVH11 JNR7/87	346	PSP-----QPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGIDSK	399
BVH11 SP63	346	PSPQSAPNPQPAPSNPIDKLVKEVVRKVGDDGYVFEKNGVSRYIPAKNLSAETAAGIDSK	405
BVH11 SP64	360	PSPQPAPNPQPAPSNPIDKLVKEAVRKVGDDGYVFEENGVSRYIPAKNLSAETAAGIDSK	419

**

BVH11-2 SP64	406	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	465
BVH11-2 JNR7/87	407	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	466
BVH11-2 P4241	403	LAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	462
BVH11-2 A66	403	LAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	462
BVH11-2 WU2	403	LAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	462
BVH11-2 Rx1	406	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	465
BVH11 P4241	403	LAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	462
BVH11 WU2	403	LAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	462
BVH11 A66	403	LAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	462
BVH11 Rx1	406	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	465
BVH11 JNR7/87	400	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	459
BVH11 SP63	406	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	465
BVH11 SP64	420	LAKQESLSHKLGAKKTDLPSSDREFYNKAYDLLARIHQDLDNKGQVDFEALDNLLERL	479

BVH11-2 SP64	466	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	525
BVH11-2 JNR7/87	467	KDVPSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	526
BVH11-2 P4241	463	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11-2 A66	463	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11-2 WU2	463	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11-2 Rx1	466	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11 P4241	463	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11 WU2	463	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11 A66	463	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11 Rx1	466	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	522
BVH11 JNR7/87	460	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	519
BVH11 SP63	466	EDVPSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	525
BVH11 SP64	480	KDVSSDKVKLVDDILAFAPIRHPERLGKPNQAITYTDD	DEIQVAKLAGKYTTEDGYIFDP	539

BVH11-2 SP64	526	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	585
BVH11-2 JNR7/87	527	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	586
BVH11-2 P4241	523	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	582
BVH11-2 A66	523	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	582
BVH11-2 WU2	523	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	582
BVH11-2 Rx1	526	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	585
BVH11 P4241	523	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	582
BVH11 WU2	523	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	582
BVH11 A66	523	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	582
BVH11 Rx1	526	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	585
BVH11 JNR7/87	520	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	579
BVH11 SP63	526	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	585
BVH11 SP64	540	RDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAQAQAYAKEKGLT	PPSTDHQDSGNT	599

BVH11-2 SP64	586	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	645
BVH11-2 JNR7/87	587	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	646
BVH11-2 P4241	583	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	642
BVH11-2 A66	583	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	642
BVH11-2 WU2	583	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	642
BVH11-2 Rx1	586	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	645
BVH11 P4241	583	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	642
BVH11 WU2	583	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	642
BVH11 A66	583	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	642
BVH11 Rx1	586	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	645
BVH11 JNR7/87	580	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	639
BVH11 SP63	586	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	645
BVH11 SP64	600	GAEAIYNRVKAAKKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAPK	659

BVH11-2 SP64	646	GYSLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	690
BVH11-2 JNR7/87	647	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	VDQDSK	691
BVH11-2 P4241	643	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11-2 A66	643	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11-2 WU2	643	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11-2 Rx1	646	GYSLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11 P4241	643	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11 WU2	643	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11 A66	643	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	ADQDSK	687
BVH11 Rx1	646	GYSLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	NGQ	687
BVH11 JNR7/87	640	GYSLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	NGQ	681
BVH11 SP63	646	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	NGQ	687
BVH11 SP64	660	GYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNK-----	NGQ	701

BVH11-2 SP64	691	PDEDKEHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	750
BVH11-2 JNR7/87	692	PDEDKEHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	751
BVH11-2 P4241	688	PDEDKGHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	747
BVH11-2 A66	688	PDEDKGHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	747
BVH11-2 WU2	688	PDEDKGHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	747
BVH11-2 Rx1	706	PEEDKEHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	765
BVH11 P4241	688	PDEDKGHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	747
BVH11 WU2	688	PDEDKGHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	747
BVH11 A66	688	PDEDKGHDEVSEPTHPESDEKENHAGLNPSADNLYKPSTDTETETEEAEDTTDEAEIPQV	747
BVH11 Rx1	688	ADTNQTEKPNEEKPQTEKPEEETPREKKPQSEKPEPKPTEPEPEESPEESPEESEEPQV	747
BVH11 JNR7/87	682	ADTNQTEKPNEEKPQTEKPEEETPREKKPQSEKPEPKPTEPEPEESPEESPEESEEPQV	741
BVH11 SP63	688	ADTNQTEKPSEKPKQTEKPEEETPREKKPQSEKPESP----KPTPEPEESPEESEEPQV	743
BVH11 SP64	702	ADTNQTEKPSEKPKQTEKPEEETPREKKPQSEKPESP----KPTPEPEESPEESEEPQV	757
		* . . . * . . . * . . . * . . . * . . . *	
BVH11-2 SP64	751	ENSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	810
BVH11-2 JNR7/87	752	ENSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	811
BVH11-2 P4241	748	EHSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	807
BVH11-2 A66	748	EHSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	807
BVH11-2 WU2	748	EHSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	807
BVH11-2 Rx1	766	EYSVINAKIAEAEALLEKVTDPsirQNAVETLTGLKSSLLGTDKNNTISAEVDSLLALL	825
BVH11 P4241	748	EHSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	807
BVH11 WU2	748	EHSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	807
BVH11 A66	748	EHSVINAKIADAEALLEKVTDPsirQnamETLTGLKSSLLGTDKNNTISAEVDSLLALL	807
BVH11 Rx1	748	ETEKVKEKLREAE DLLGKIQNPIIKSNAKETLTGLKNNLLFGTDQNNNTIMAEAEKLLALL	807
BVH11 JNR7/87	742	ETEKVKEKLREAE DLLGKIQNPIIKSNAKETLTGLKNNLLFGTDQNNNTIMAEAEKLLALL	801
BVH11 SP63	744	ETEKVKEKLREAE DLLGKIQDPPIIKSNAKETLTGLKNNLLFGTDQNNNTIMAEAEKLLALL	803
BVH11 SP64	758	ETEKVKEKLREAE DLLGKIQDPPIIKSNAKETLTGLKNNLLFGTDQNNNTIMAEAEKLLALL	817
		* . . . * . . . * . . . * . . . * . . . * . . . *	
BVH11-2 SP64	811	KESQPAPIQ	819
BVH11-2 JNR7/87	812	KESQPAPIQ	820
BVH11-2 P4241	808	KKSQPAPIQ	816
BVH11-2 A66	808	KKSQPAPIQ	816
BVH11-2 WU2	808	KKSQPAPIQ	816
BVH11-2 Rx1	826	KESQPAPIQ	834
BVH11 P4241	808	KESK	811
BVH11 WU2	808	KESK	811
BVH11 A66	808	KESK	811
BVH11 Rx1	808	KESK	811
BVH11 JNR7/87	802	KESK	805
BVH11 SP63	804	KESK	807
BVH11 SP64	818	KESK	821
		* . .	

FIGURE 12

[illegible]

AATTCCTTGT	CGGGTAAGTT	CCGACCCGCA	CGAAAGGCGT	AATGATTTGG	GCACTGTCTC	60
AACGAGAGAC	TCGGTGAAAT	TTTAGTACCT	GTGAAGATGC	AGGTTACCCG	CGACAGGACG	120
GAAAGACCCC	ATGGAGCTTT	ACTGCAGTTT	GATATTGAGT	GTCTGTACCA	CATGTACAGG	180
ATAGGTAGGA	GTCTAAGAGA	TCGGGACGCC	AGTTTCGAAG	GAGACGCTGT	TGGGATACTA	240
CCCTTGTGTT	ATGGCCACTC	TAACCCAGAT	AGGTGATCCC	TATCGGAGAC	AGTGTCTGAC	300
GGGCAGTTTG	ACTGGGGCGG	TCGCCTCCTA	AAAGGTAACG	GAGGCGCCCA	AAGGTTCCCT	360
CAGAATGGTT	GGAAATCATT	CGCAGAGTGT	AAAGGTATAA	GGGAGCTTGA	CTGCGAGAGC	420
TACAACCTCGA	GCAGGGACGA	AAGTCGGGCT	TAGTGATCCG	GTGGTTCCGT	ATGGAAGGGC	480
CATCGCTCAA	CGGATAAAAG	CTACCCTGGG	GATAACAGGC	TTATCTCCCC	CAAGAGTTCA	540
CATCGACGGG	GAGGTTTGGC	ACCTCGATGT	CGGCTCGTCG	CATCCTGGGG	CTGTAGTCCG	600
TCCCAAGGGT	TGGGCTGTTC	GCCCATTAAA	GCGGCACGCG	AGCTGGGTTT	AGAACGTCGT	660
GAGACAGTTC	GGTCCCTATC	CGTCGCGGGC	GTAGGAAATT	TGAGAGGATC	TGCTCCTAGT	720
ACGAGAGGAC	CAGAGTGGAC	TTACCGCTGG	TGTACCAGTT	GTCTTGCCAA	AGGCATCGCT	780
GGGTAGCTAT	GTAGGGAAGG	GATAAACGCT	GAAAGCATCT	AAGTGTGAAA	CCCACCTCAA	840
GATGAGATTT	CCCATGATTA	TATATCAGTA	AGAGCCCTGA	GAGATGATCA	GGTAGATAGG	900
TTAGAAGTGG	AAGTGTGGCG	ACACATGTAG	CGGACTAATA	CTAATAGCTC	GAGGACTTAT	960
CCAAAGTAAC	TGAGAATATG	AAAGCGAACG	GTTTTCTTAA	ATTGAATAGA	TATTCAATTT	1020
TGAGTAGGTA	TTACTCAGAG	TTAAGTGACG	ATAGCCTAGG	AGATACACCT	GTACCCATGC	1080
CGAACACAGA	AGTTAAGCCC	TAGAACGCCG	GAAGTAGTTG	GGGGTTGCCC	CCTGTGAGAT	1140
AGGGAAGTCG	CTTAGCTCTA	GGGAGTTTAG	CTCAGCTGGG	AGAGCATCTG	CCTTACAAGC	1200
AGAGGCTCAG	CGTTTCGATC	CCGTAACTC	CCAAAGGTCC	CGTAGTGTAG	CGGTTATCAC	1260
GTGCGCCGTG	CACGGCGAAG	ATCGCGGGT	CGATTCCCGT	CGGGACCGTT	TAAGGTAACG	1320
CAAGTTATTT	TAGACTTCGT	AGCTCAGTTG	GTAGAGCAAT	TGACTTTTAA	TCAATGGGTC	1380
ACTGGTTCGA	GCCCAGTACG	GGTCATATAT	GCGGGTTTGG	CGGAATTCTA	ATCTCTTTGA	1440
AATCATCTTC	TCTCACTTTC	CAAAACTCTA	TTACCTCTTA	TTATACCACA	TTTCAATCTT	1500
CAACTTCCCA	GTAATATAAG	CACCTCTGGC	GAAAGAAGTT	TCAATGTCCT	AAAGTAATAA	1560
GTGAATCCAA	TTCAGGAACT	CCAAGAACAA	AAGAAACATC	TGGTGTGACA	AGTATTGGAT	1620
GGCACAGAGT	CACGTGGTAG	TCTGACCCTA	GCAGAAATTT	TAAATAGTAA	ACTATTTACT	1680
GGTTAATTAA	ATGGTTAAAT	AACCGGTTTA	GAAAACATT	TAATAAAGTA	AAAGAAGTTG	1740
AGAAAAAACT	TCATCATTTA	TTGAAATGAG	GGATTTATGA	AATTTAGTAA	AAAATATATA	1800
GCAGCTGGAT	CAGCTGTTAT	CGTATCCTTG	AGTCTATGTG	CCTATGCACT	AAACCAGCAT	1860
CGTTCGCAGG	AAAAATAAGGA	CAATAATCGT	GTCTCTTATG	TGGATGGCAG	CCAGTCAAGT	1920
CAGAAAAGTG	AAAACTTGAC	ACCAGACCAG	GTTAGCCAGA	AAGAAGGAAT	TCAGGCTGAG	1980
CAAATTGTAA	TCAAAATTAC	AGATCAGGGC	TATGTAACGT	CACACGGTGA	CCACTATCAT	2040
TACTATAATG	GGAAAGTTCC	TTATGATGCC	CTCTTTAGTG	AAGAACTCTT	GATGAAGGAT	2100
CCAAACTATC	AACTTAAAGA	CGCTGATATT	GTCAATGAAG	TCAAGGGTGG	TTATATCATC	2160
AAGGTCGATG	GAAAAATATTA	TGTCTACCTG	AAAGATGCAG	CTCATGCTGA	TAATGTTCTGA	2220
ACTAAAGATG	AAATCAATCG	TCAAAAAACAA	GAACATGTCA	AAGATAATGA	GAAGGTTAAC	2280
TCTAATGTTG	CTGTAGCAAG	GTCTCAGGGA	CGATATACGA	CAAATGATGG	TTATGTCTTT	2340
AATCCAGCTG	ATATTATCGA	AGATACGGGT	AATGCTTATA	TCGTTCCCTA	TGGAGGTCAC	2400
TATCACTACA	TTCCCAAAAAG	CGATTTATCT	GCTAGTGAAT	TAGCAGCAGC	TAAAGCACAT	2460
CTGGCTGGAA	AAAAATATGCA	ACCGAGTCAG	TTAAGCTATT	CTTCAACAGC	TAGTGACAAT	2520
AACACGCAAT	CTGTAGCAAA	AGGATCAACT	AGCAAGCCAG	CAAATAAATC	TGAAAAATCTC	2580
CAGAGTCTTT	TGAAGGAACT	CTATGATTCA	CCTAGCGCCC	AACGTTACAG	TGAATCAGAT	2640
GGCCTGGTCT	TTGACCCTGC	TAAGATTATC	AGTCGTACAC	CAAATGGAGT	TGCGATTCCG	2700
CATGGCGACC	ATTACCACTT	TATTCCTTAC	AGCAAGCTTT	CTGCTTTAGA	AGAAAAGATT	2760
GCCAGAAATGG	TGCCTATCAG	TGGAACCTGGT	TCTACAGTTT	CTACAAATGC	AAAACCTAAT	2820
GAAGTAGTGT	CTAGTCTAGG	CAGTCTTTCA	AGCAATCCTT	CTTCTTTAAC	GACAAGTAAG	2880
GAGCTCTCTT	CAGCATCTGA	TGGTTATATT	TTTAATCCAA	AAGATATCGT	TGAAGAAACG	2940
GCTACAGCTT	ATATTGTAAG	ACATGGTGAT	CATTTCCATT	ACATTCCAAA	ATCAAATCAA	3000
ATTGGGCAAC	CGACTCTTCC	AAACAATAGT	CTAGCAACAC	CTTCTCCATC	TCTTCCAATC	3060
AATCCAGGAA	CTTCACATGA	GAAACATGAA	GAAGATGGAT	ACGGATTGTA	TGCTAATCGT	3120
ATTATCGCTG	AAGATGAATC	AGGTTTTGTC	ATGAGTCACG	GAGACCACAA	TCATTATTTT	3180
TTCAAGAAGG	ACTTGACAGA	AGAGCAAATT	AAGGCTGCGC	AAAAACATTT	AGAGGAAAGTT	3240
AAAAC TAGTC	ATAATGGATT	AGATTCTTTG	TCATCTCATG	AACAGGATTA	TCCAGGTAAT	3300
GCCAAAGAAA	TGAAAGATTT	AGATAAAAAA	ATCGAAGAAA	AAATTGCTGG	CATTATGAAA	3360

CAATATGGTG	TCAAACGTGA	AAGTATTGTC	GTGAATAAAG	AAAAAAATGC	GATTATTTAT	3420
CCGCATGGAG	ATCACCATCA	TGCAGATCCG	ATTGATGAAC	ATAAACCGGT	TGGAATTGGT	3480
CATTCTCACA	GTAACATGA	ACTGTTTAAA	CCCGAAGAAG	GAGTTGCTAA	AAAAGAAGGG	3540
AATAAAGTTT	ATACTGGAGA	AGAATTAAACG	AATGTTGTGA	ATTTGTTAAA	AAATAGTACG	3600
TTTAATAATC	AAAACTTTAC	TCTAGCCAAT	GGTCAAAAAC	GCGTTTCTTT	TAGTTTTCCG	3660
CCTGAATTGG	AGAAAAAATT	AGGTATCAAT	ATGCTAGTAA	AATTAATAAC	ACCAGATGGA	3720
AAAGTATTGG	AGAAAGTATC	TGGTAAAGTA	TTTGAGAGAAG	GAGTAGGGAA	TATTGCAAAC	3780
TTTGAATTAG	ATCAACCTTA	TTTACCAGGA	CAAACATTTA	AGTATACTAT	CGCTTCAAAA	3840
GATTATCCAG	AAGTAAGTTA	TGATGGTACA	TTTACAGTTC	CAACCTCTTT	AGCTTACAAA	3900
ATGGCCAGTC	AAACGATTTT	CTATCCTTTC	CATGCAGGGG	ATACTTATTT	AAGAGTGAAC	3960
CCTCAATTTG	CAGTGCCTAA	AGGAACTGAT	GCTTTAGTCA	GAGTGTGTTGA	TGAATTTTCAT	4020
GGAAATGCTT	ATTTAGAAAA	TAACATATAAA	GTTGGTGAAA	TCAAATTACC	GATTCCGAAA	4080
TTAAACCAAG	GAACAACCAG	AACGGCCGGA	AATAAAATTC	CTGTAACCTT	CATGGCAAAT	4140
GCTTATTTGG	ACAATCAATC	GACTTATATT	GTGGAAGTAC	CTATCTTGGA	AAAAGAAAAT	4200
CAAACGTATA	AACCAAGTAT	TCTACCACAA	TTTAAAAGGA	ATAAAGCACA	AGAAAACTCA	4260
AAACTTGATG	AAAAGGTAGA	AGAACCAAAG	ACTAGTGAGA	AGGTAGAAAA	AGAAAACTT	4320
TCTGAAACTG	GGAATAGTAC	TAGTAATTCA	ACGTTAGAAG	AAGTTCCTAC	AGTGGATCCT	4380
GTACAAGAAA	AAGTAGCAAA	ATTTGCTGAA	AGTTATGGGA	TGAAGCTAGA	AAATGTCCTG	4440
TTTAATATGG	ACGGAACAAT	TGAATTATAT	TTACCATCAG	GAGAAGTCAT	TAAAAAGAAT	4500
ATGGCAGATT	TTACAGGAGA	AGCACCTCAA	GGAAATGGTG	AAAATAAACC	ATCTGAAAAT	4560
GGAAAAGTAT	CTACTGGAAC	AGTTGAGAAC	CAACCAACAG	AAAATAAACC	AGCAGATTCT	4620
TTACCAGAGG	CACCAAACGA	AAAACCTGTA	AAACCAGAAA	ACTCAACGGA	TAATGGAATG	4680
TTGAATCCAG	AAGGGAATGT	GGGGAGTGAC	CCTATGTTAG	ATCCAGCATT	AGAGGAAGCT	4740
CCAGCAGTAG	ATCCTGTACA	AGAAAAATTA	GAAAAATTTA	CAGCTAGTTA	CGGATTAGGC	4800
TTAGATAGTG	TTATATTCAA	TATGGATGGA	ACGATTGAAT	TAAGATTGCC	AAGTGGAGAA	4860
GTGATAAAAA	AGAATTTATC	TGATTTTCATA	GCGTAAGGAA	TAGCAGTAGA	AAAAGTCTGA	4920
ATCAAAAATG	AAGTTCTCTC	AAAAGTTAGA	AATAAACTC	TGACTTTGGG	AGAATTTTCAT	4980
TTTATTATTA	ATATATAAAA	TTTCTTGACA	TACAACTTAA	AAAGAGGTGG	AATATTTACT	5040
AGTTAATT	(SEQ ID NO : 11)					5048

FIGURE 14

CAGAGATCTT	AGTGAATCAA	ATATACTTAA	GAAAAGAGGA	AAGAATGAAA	ATCAATAAAA	60
AATATCTAGC	TGGGTCAGTA	GCTACACTTG	TTTTAAGTGT	CTGTGCTTAT	GAAC TAGGTT	120
TGCATCAAGC	TCAAACTGTA	AAAGAAAATA	ATCGTGTTTC	CTATATAGAT	GGAAAACAAG	180
CGACGCAAAA	AACGGAGAAT	TTGACTCCTG	ATGAGGTTAG	CAAGCGTGAA	GGAATCAACG	240
CCGAACAAAT	CGTCATCAAG	ATTACGGATC	AAGGTTATGT	GACCTCTCAT	GGAGACCATT	300
ATCATTACTA	TAATGGCAAG	GTCCCTTATG	ATGCCATCAT	CAGTGAAGAG	CTCCTCATGA	360
AAGATCCGAA	TTATCAGTTG	AAGGATTGAG	ACATTGTCAA	TGAAATCAAG	GGTGGTTATG	420
TCATTAAGGT	AAACGGTAAA	TACTATGTTT	ACCTTAAGGA	TGCAGCTCAT	GCGGATAATG	480
TCCGTACAAA	AGAAGAAATC	AATCGGCAAA	AACAAGAACA	TAGTCAGCAT	CGTGAAGGAG	540
GGACTTCAGC	AAACGATGGT	GCGGTAGCCT	TTGCACGTTT	ACAGGGACGC	TACACCACAG	600
ATGATGGTTA	TATCTTCAAT	GCATCTGATA	TCATCGAAGA	TACGGGCGAT	GCCTATATCG	660
TTCCTCATGG	AGATCATTAC	CATTACATTC	CTAAGAATGA	GTTATCAGCT	AGCGAGTTGG	720
CTGCTGCAGA	AGCCTTTCCTA	TCTGGTCCGG	AAAATCTGTC	AAATTTAAGA	ACCTATCGCC	780
GACAAAATAG	CGATAACACT	CCAAGAACAA	ACTGGGTACC	TTCTGTAAGC	AATCCAGGAA	840
CTACAAATAC	TAACACAAGC	AACAACAGCA	ACACTAACAG	TCAAGCAAGT	CAAAGTAATG	900
ACATTGATAG	TCTCTTGAAG	CAGCTCTACA	AACCTGCCTT	GAGTCAACGC	CATGTAGAAT	960
CTGATGGCCT	TATTTTCGAC	CCAGCGCAAA	TCACAAGTCG	AACCGCCAGA	GGTGTAGCTG	1020
TCCCTCATGG	TAACCATTAC	CACTTTATCC	CTTATGAACA	AATGTCTGAA	TTGGAAAAAC	1080
GAATTGCTCG	TATTATTCCC	CTTCGTTATC	GTTCAAACCA	TTGGGTACCA	GATTCAAGAC	1140
CAGAAGAACC	AAGTCCACAA	CCGACTCCAA	AACCTAGTCC	AAGTCCGCAA	CCTGCACCAA	1200
ATCCTCAACC	AGCTCCAAGC	AATCCAATTG	ATGAGAAAATT	GGTCAAAGAA	GCTGTTCCGAA	1260
AAGTAGGCGA	TGGTTATGTC	TTTGAGGAGA	ATGGAGTTTC	TCGTTATATC	CCAGCCAAGA	1320
ATCTTTTCAGC	AGAAACAGCA	GCAGGCATTG	ATAGCAAAC	GGCCAAGCAG	GAAAGTTTAT	1380
CTCATAAGCT	AGGAGCTAAG	AAAAC TGACC	TCCCATCTAG	TGATCGAGAA	TTTTACAATA	1440
AGGCTTATGA	CTTACTAGCA	AGAATTCACC	AAGATTTACT	TGATAATAAA	GGTCGACAAG	1500
TTGATTTTGA	GGCTTTGGAT	AACCTGTTGG	AACGACTCAA	GGATGTCTCA	AGTGATAAAG	1560
TCAAGTTAGT	GGATGATATT	CTTGCCCTTCT	TAGCTCCGAT	TCGTCATCCA	GAACGTTTAT	1620
GAAAACCAAA	TGCGCAAAAT	ACCTACACTG	ATGATGAGAT	TCAAGTAGCC	AAGTTGGCAG	1680
GCAAGTACAC	AACAGAAGAC	GGTTATATCT	TTGATCCTCG	TGATATAACC	AGTGATGAGG	1740
GGGATGCCTA	TGTAAC TCCA	CATATGACCC	ATAGCCACTG	GATTAAAAAA	GATAGTTTGT	1800
CTGAAGCTGA	GAGAGCGGCA	GCCAGGCTT	ATGCTAAAGA	GAAAGGTTTG	ACCCCTCCTT	1860
CGACAGACCA	TCAGGATTCA	GGAAATACTG	AGGCAAAAGG	AGCAGAAGCT	ATCTACAACC	1920
GCGTGAAAGC	AGCTAAGAAG	GTGCCACTTG	ATCGTATGCC	TTACAATCTT	CAATATACTG	1980
TAGAAGTCAA	AAACGGTAGT	TTAATCATA	CTCATTATGA	CCATTACCAT	AACATCAAAT	2040
TTGAGTGGTT	TGACGAAGGC	CTTTATGAGG	CACCTAAGGG	GTATACTCTT	GAGGATCTTT	2100
TGGCGACTGT	CAAGTACTAT	GTCSAACATC	CAAACGAACG	TCCGCATTCA	GATAATGGTT	2160
TTGGTAACGC	TAGCGACCAT	GTTCAAAGAA	ACAAAAATGG	TCAAGCTGAT	ACCAATCAAA	2220
CGGAAAAACC	AAGCGAGGAG	AAACCTCAGA	CAGAAAAACC	TGAGGAAGAA	ACCCCTCGAG	2280
AAGAGAAACC	ACAAAGCGAG	AAACCAGAGT	CTCCAAAACC	AACAGAGGAA	CCAGAAGAAG	2340
AATCACCAGA	GGAATCAGAA	GAACCTCAGG	TCGAGACTGA	AAAGGTTGAA	GAAAAACTGA	2400
GAGAGGCTGA	AGATTTACTT	GGAAAAATCC	AGGATCCAAT	TATCAAGTCC	AATGCCAAAG	2460
AGACTCTCAC	AGGATTAAAA	AATAATTTAC	TATTTGGCAC	CCAGGACAAC	AATACTATTA	2520
TGGCAGAAGC	TGAAAAACTA	TTGGCTTTAT	TAAAGGAGAG	TAAGTAAAGG	TAGCAGCATT	2580
TTCTAACTCC	TAAAAACAGG	ATAGGAGAAC	GGGAAAACGA	AAAATGAGAG	CAGAATGTGA	2640
GTTCTAG	(SED ID NO : 12)					2647

FIGURE 15

GGGTCTTAAA	ACTCTGAATC	CTTTAGAGGC	AGACCCACAA	AATGACAAGA	CCTATTTAGA	60
AAATCTGGAA	GAAAATATGA	GTGTTCTAGC	AGAAGAATTA	AAGTGAGGAA	AGAATGAAAA	120
TCAATAAAAA	ATATCTAGCA	GGTTCAGTGG	CAGTCCTTGC	CCTAAGTGTT	TGTTCCCTATG	180
AAC TTGGTCG	TCACCAAGCT	GGTCAGGTTA	AGAAAGAGTC	TAATCGAGTT	TCTTATATAG	240
ATGGTGATCA	GGCTGGTCAA	AAGGCAGAAA	ATTTGACACC	AGATGAAGTC	AGTAAGAGAG	300
AGGGGATCAA	CGCCGAACAA	ATTGTTATCA	AGATTACGGA	TCAAGGTTAT	GTGACCTCTC	360
ATGGAGACCA	TTATCATTAC	TATAATGGCA	AGGTTCCCTA	TGATGCCATC	ATCAGTGAAG	420
AACTTCTCAT	GAAAGATCCG	AATTATCAGT	TGAAGGATTC	AGACATTGTC	AATGAAATCA	480
AGGGTGGCTA	TGTGATTAAG	GTAGACGGAA	AATACTATGT	TTACCTTAAA	GATGCGGCCC	540
ATGCGGACAA	TATTCGGACA	AAAGAAGAGA	TTAAACGTCA	GAAGCAGGAA	CACAGTCATA	600
ATCATAACTC	AAGAGCAGAT	AATGCTGTTG	CTGCAGCCAG	AGCCCAAGGA	CGTTATACAA	660
CGGATGATGG	GTATATCTTC	AATGCATCTG	ATATCATTGA	GGACACGGGT	GATGCTTATA	720
TCGTTCCCTCA	CGGCGACCAT	TACCATTACA	TTCCCTAAGAA	TGAGTTATCA	GCTAGCGAGT	780
TAGCTGCTGC	AGAAGCCTAT	TGGAATGGGA	AGCAGGGATC	TCGTCCCTTCT	TCAAGTTCTA	840
GTTATAATGC	AAATCCAGTT	CAACCAAGAT	TGTCAGAGAA	CCACAATCTG	ACTGTCACTC	900
CAACTTATCA	TCAAAATCAA	GGGGAAAACA	TTTCAAGCCT	TTTACGTGAA	TGTATGCTA	960
AACCCTTATC	AGAACGCCAT	GTAGAATCTG	ATGGCCTTAT	TTTCGACCCA	GCGCAAATCA	1020
CAAGTCGAAC	CGCCAGAGGT	GTAGCTGTCC	CTCATGGTAA	CCATTACCAC	TTTATCCCTT	1080
ATGAACAAAT	GTCTGAATTG	GAAAAACGAA	TTGCTCGTAT	TATTCCCTT	CGTTATCGTT	1140
CAAACCATTG	GGTACCAGAT	TCAAGACCAG	AACAACCAAG	TCCACAATCG	ACTCCGGAAC	1200
CTAGTCCAAG	TCTGCAACCT	GCACCAATC	CTCAACCAGC	TCCAAGCAAT	CCAATTGATG	1260
AGAAATTGGT	CAAAGAAGCT	GTTTCGAAAAG	TAGGCGATGG	TTATGTCCTT	GAGGAGAATG	1320
GAGTTTCTCG	TTATATCCCA	GCCAAGGATC	TTTCAGCAGA	AACAGCAGCA	GGCATTGATA	1380
GCAAACTGGC	CAAGCAGGAA	AGTTTATCTC	ATAAGCTAGG	AGCTAAGAAA	ACTGACCTCC	1440
CATCTAGTGA	TCGAGAATTT	TACAATAAGG	CTTATGACTT	ACTAGCAAGA	ATTCACCAAG	1500
ATTTACTTGA	TAATAAAGGT	CGACAAGTTG	ATTTTGAGGT	TTTGGATAAC	CTGTTGGAAC	1560
GACTCAAGGA	TGTCTCAAGT	GATAAAGTCA	AGTTAGTGGA	TGATATTCTT	GCCTTCTTAG	1620
CTCCGATTCTG	TCATCCAGAA	CGTTTAGGAA	AACCAAATGC	GCAAATTACC	TACACTGATG	1680
ATGAGATTCA	AGTAGCCAAG	TTGGCAGGCA	AGTACACAAC	AGAAGACGGT	TATATCTTTG	1740
ATCCTCGTGA	TATAACCAGT	GATGAGGGGG	ATGCCTATGT	AACTCCACAT	ATGACCCATA	1800
GCCACTGGAT	TAAAAAAGAT	AGTTTGTCTG	AAGCTGAGAG	AGCGGCAGCC	CAGGCTTATG	1860
CTAAAGAGAA	AGGTTTGACC	CCTCCTTCGA	CAGACCACCA	GGATTTCAGGA	AATACTGAGG	1920
CAAAAGGAGC	AGAAGCTATC	TACAACCGCG	TGAAAGCAGC	TAAGAAGGTG	CCACTTGATC	1980
GTATGCCTTA	CAATCTTCAA	TATACTGTAG	AAGTCAAAAA	CGGTAGTTTA	ATCATACCTC	2040
ATTATGACCA	TTACCATAAC	ATCAAATTTG	AGTGGTTTGA	CGAAGGCCTT	TATGAGGCAC	2100
CTAAGGGGTA	TAGTCTTGAG	GATCTTTTGG	CGACTGTCAA	GTAATATGTC	GAACATCCAA	2160
ACGAACGTCC	GCATTTCAGAT	AATGGTTTTG	GTAACGCTAG	TGACCATGTT	CGTAAAAATA	2220
AGGCAGACCA	AGATAGTAAA	CCTGATGAAG	ATAAGGAACA	TGATGAAGTA	AGTGAGCCAA	2280
CTCACCTTGA	ATCTGATGAA	AAAGAGAATC	ACGCTGGTTT	AAATCCTTCA	GCAGATAATC	2340
TTTATAAACC	AAGCACTGAT	ACGGAAGAGA	CAGAGGAAGA	AGCTGAAGAT	ACCACAGATG	2400
AGGCTGAAAT	TCCTCAAGTA	GAGAATTCTG	TTATTAACGC	TAAGATAGCA	GATGCGGAGG	2460
CCTTGCTAGA	AAAAGTAACA	GATCCTAGTA	TTAGACAAAA	TGCTATGGAG	ACATTGACTG	2520
GTCTAAAAAG	TAGTCTTCTT	CTCGGAACGA	AAGATAATAA	CACTATTTCA	GCAGAAGTAG	2580
ATAGTCTCTT	GGCTTTGTTA	AAAGAAAGTC	AACCGGCTCC	TATACAGTAG	TAAATGAA	2639

(SEQ ID NO : 13)

FIGURE 16

MKINKKYL	AG SVAVLALSVC	SYELGRHQAG	QVKKESNRVS	YIDGDQAGQK	50
AENLTPDEV	S KREGINAEQI	VIKITDQGYV	TSHGDHYHY	NGKVYPYDAI	100
SEELLMKDP	N YQLKDSDIVN	EIKGGYVIKV	DGKYYVYLKD	AAHADNIRTK	150
EEIKRQKQEH	S SHNHNSRADN	AVAAARAQGR	YTTDDGYIFN	ASDIIEDTGD	200
AYIVPHGDHY	S HYIPKNELSA	SELAAAEAYW	NGKQGSRPSS	SSSYNANPVQ	250
PRLSENHNLT	S VTPTYHQNOG	ENISSLLREL	YAKPLSERHV	ESDGLIFDPA	300
QITSRTARGV	S AVPHGNHYHF	IPYEQMSELE	KRIARIIPLR	YRSNHWVPDS	350
RPEQSPSQST	S PEPSPSLQPA	PNPQPAPSNP	IDEKLVKEAV	RKVGDDGYVFE	400
ENGVSRYIPA	S KDLSAETAAG	IDSKLAKQES	LSHKLGAOKT	DLPSSDREFY	450
NKAYDLLARI	S HQDLLDNKGR	QVDFEVLN	LERLKDVS	KVKLVDDILA	500
FLAPIRHPER	S LGKPNAQITY	TDDEIQVAKL	AGKYTTEDGY	IFDPRDITSD	550
EGDAYVTPHM	S THSHWIKKDS	LSEAERAAQ	AYAKEKGLTP	PSTDHQDSGN	600
TEAKGAEAIY	S NRVKAAKKVP	LDRMPYNLQY	TVEVKNGSLI	IPHYDHYHNI	650
KFEWFDEGLY	S EAPKGYSLED	LLATVKYYVE	HPNERPHSDN	GFGNASDHVR	700
KNKADQDSKP	S DEDKEHDEVS	EPHPESDEK	ENHAGLNPSA	DNLYKPSTDT	750
EETEEEAEDT	S TDEAEIPQVE	NSVINAKIAD	AEALLEKVTD	PSIRQNAMET	800
LTGLKSSLLL	S GTKDNNTISA	EVDSLLALLK	ESQPAPIQ		838

(SEQ ID NO : 14)

FIGURE 17

TGTGCTATG	CACTAAACCA	GCATCGTTCG	CAGGAAAATA	AGGACAATAA	TCGTGTCTCT	60
TATGTGGATG	GCAGCCAGTC	AAGTCAGAAA	AGTGAAAACT	TGACACCAGA	CCAGGTTAGC	120
CAGAAAAGAA	GAAATTCAGGC	TGAGCAAATT	GTAATCAAAA	TTACAGATCA	GGGCTATGTA	180
ACGTACACAG	GTGATCACTA	TCATTACTAT	AATGGGAAAG	TTCTTTATGA	TGCCCTCTTT	240
AGTGAAGAAC	TCTTGATGAA	GGATCCAAAC	TATCAACTTA	AAGACGCTGA	TATTGTCAAT	300
GAAGTCAAGG	GTGGTTATAT	CATCAAGGTC	GATGGAAAAT	ATTATGTCTA	CCTGAAAAGAT	360
GCAGCTCATG	CTGATAATGT	TCGAACTAAA	GATGAAATCA	ATCGTCAAAA	ACAAGAACAT	420
GTCAAAGATA	ATGAGAAGGT	TAACCTAAT	GTTGCTGTAG	CAAGGTCTCA	GGGACGATAT	480
ACGACAAATG	ATGGTTATGT	CTTTAATCCA	GCTGATATTA	TCGAAGATAC	GGGTAATGCT	540
TATATCGTTC	CTCATGGAGG	TCATATCAC	TACATTCCCA	AAAGCGATTT	ATCTGCTAGT	600
GAATTAGCAG	CAGCTAAAGC	ACATCTGGCT	GGAAAAATA	TGCAACCGAG	TCAGTTAAGC	660
TATTCTTCAA	CACCTTCTCC	ATCTCTTCCA	ATCAATCCAG	GAAC TTCACA	TGAGAAACAT	720
GAAGAAGATG	GATACGGATT	TGATGCTAAT	CGTATTATCG	CTGAAGATGA	ATCAGGTTTT	780
GTCATGAGTC	ACGGAGACCA	CAATCATTAT	TTCTTCAAGA	AGGACTTGAC	AGAAGAGCAA	840
ATTAAGGCTG	CGCAAAAACA	TTTAGAGGAA	GTTAAACTA	GTCATAATGG	ATTAGATTCT	900
TTGTCATCTC	ATGAACAGGA	TTATCCAAGT	AATGCCAAAG	AAATGAAAGA	TTTAGATAAA	960
AAAATCGAAG	AAAAAATTGC	TGGCATTATG	AAACAATATG	GTGTCAAACG	TGAAAGTATT	1020
GTGTCGAATA	AAGAAAAAAA	TGCGATTATT	TATCCGCATG	GAGATCACCA	TCATGCAGAT	1080
CCGATTGATG	AACATAAAC	GGTTGGAATT	GGCAATTCTC	ACAGTAACTA	TGAACTGTTT	1140
AAACCCGAAG	AAGGAGTTGC	TAAAAAAGAA	GGGAATAAAG	TTTATACTGG	AGAAGAAATTA	1200
ACGAATGTTG	TTAATTTGTT	AAAAAATAGT	ACGTTTAATA	ATCAAAACTT	TACTCTAGCC	1260
AATGGTCAAA	AACGCGTTTC	TTTTAGTTTT	CCGCCTGAAT	TGGAGAAAAA	ATTAGGTATC	1320
AATATGCTAG	TAAAATTAAT	AACACCAGAT	GGAAAAGTAT	TGGAGAAAGT	ATCTGGTAAA	1380
GTATTTGGAG	AAGGAGTAGG	GAATATTGCA	AACTTTGAAT	TAGATCAACC	TTATTTACCA	1440
GGACAAACAT	TTAAGTATAC	TATCGCTTCA	AAAGATTATC	CAGAAGTAAG	TTATGATGGT	1500
ACATTTACAG	TTCCAACCTC	TTTAGCTTAC	AAAATGGCCA	GTCAAACGAT	TTTCTATCCT	1560
TTCCATGCAG	GGGATACTTA	TTTAAGAGTG	AACCCTCAAT	TTGCAGTGCC	TAAAGGAACT	1620
GATGCTTTAG	TCAGAGTGTT	TGATGAATTT	CATGGAAATG	CTTATTTAGA	AAATAACTAT	1680
AAAGTTGGTG	AAATCAAATT	ACCGATTCCG	AAATTAAACC	AAGGAACAAC	CAGAACGGCC	1740
GGAAATAAAA	TTCTGTAAAC	CTTCATGGCA	AATGCTTATT	TGGACAATCA	ATCGACTTAT	1800
ATTGTGGAAG	TACCTATCTT	GGAAAAAGAA	AATCAAAC TG	ATAAACCAAG	TATTCTACCA	1860
CAATTTAAAA	GGAATAAAGC	ACAAGAAAAAC	TCAAACCTTG	ATGAAAAGGT	AGAAGAACCA	1920
AAGACTAGTG	AGAAGGTAGA	AAAAGAAAAA	CTTCTGAAA	CTGGGAATAG	TACTAGTAAT	1980
TCAACGTTAG	AAGAAGTTCC	TACAGTGGAT	CCTGTACAAG	AAAAAGTAGC	AAAATTTGCT	2040
GAAAGTTATG	GGATGAAGCT	AGAAAATGTC	TTGTTTAATA	TGGACGGAAC	AATTGAATTA	2100
TATTTACCAT	CGGGAGAAGT	CATTAAAAAG	AATATGGCAG	ATTTTACAGG	AGAAGCACCT	2160
CAAGGAAATG	GTGAAAATAA	ACCATCTGAA	AATGGAAAAG	TATCTACTGG	AACAGTTGAG	2220
AACCAACCAA	CAGAAAATAA	ACCAGCAGAT	TCTTTACCAG	AGGCACCAAA	CGAAAAACCT	2280
GTAACACAG	AAAAC TCAAC	GGATAATGGA	ATGTTGAATC	CAGAAGGGAA	TGTGGGGAGT	2340
GACCTATGT	TAGATTCAGC	ATTAGAGGAA	GCTCCAGCAG	TAGATCCTGT	ACAAGAAAAA	2400
TTAGAAAAAT	TTACAGCTAG	TTACGGATTA	GGCTTAGATA	GTGTTATATT	CAATATGGAT	2460
GGAACGATTG	AATTAAGATT	GCCAAGTGGA	GAAGTGATAA	AAAAGAATTT	ATTGATCTCA	2520
TAGCGTAA	(SEQ ID NO : 15)					2528

FIGURE 18

CAYALNQHRS	QENKDNNRVS	YVDGSQSSQK	SENLTDPQVS	QKEGIQAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	SEELLMKDPN	YQLKDADIVN	100
EVKGGYIIKV	DGKYVYLKD	AAHADNVRTK	DEINRQKQEH	VKDNEKVNSN	150
VAVARSQGRY	TTNDGYVFNP	ADIIEDTGNA	YIVPHGGHYH	YIPKSDLAS	200
ELAAAKAHLA	GKNMQPSQLS	YSSTPSPSLP	INPGTSHEKH	EEDGYGFDAN	250
RIIAEDES GF	VMSHGDHNY	FFKKDLTEEQ	IKAAQKHLEE	VKTSHNGLDS	300
LSSHEQDYP	NAKEMKDLDK	KIEEKIAGIM	KQYGVKRESI	VVNKEKNAI	350
YPHGDHHHAD	PIDEHKPVG	GSHSNYELF	KPEEGVAKKE	GNKVYTGEEL	400
TNVVNLLKNS	TFNNQNFTLA	NGQKRVSFSF	PPELEKKLGI	NMLVKLITPD	450
GKVLEKVS GK	VFGEVGNIA	NFELDQPYLP	GQTFKYTIAS	KDYPEVSYDG	500
TFTVPTSLAY	KMASQTIFYP	FHAGDTYLRV	NPQFAVPKGT	DALVRVFDEF	550
HGNAYLENNY	KVGEIKLPI	KLNQGTTRTA	GNKIPVTFMA	NAYLDNQSTY	600
IVEVPILEKE	NQTDKPSILP	QFKRNKAQEN	SKLDEKVEEP	KTSEKVEKEK	650
LSETGNSTSN	STLEEVPTVD	PVQEKVAKFA	ESYGMKLENV	LFNMDGTIEL	700
YLPSGEVIKK	NMADFTGEAP	QNGENKPS	NGKVSTGTVE	NQPTENKPAD	750
SLPEAPNEKP	VKPENSTDNG	MLNPEGNVGS	DPMLDSALEE	APAVDPVQEK	800
LEKFTASYGL	GLDSVIFNMD	GTIELRLPSG	EVIKKNLLIS		840

(SEQ ID NO : 16)

FIGURE 19

CAYALNQHRS	QENKDNNRVS	YVDGSQSSQK	SENLTDPQVS	QKEGIQAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	SEELLMKDPN	YQLKDADIVN	100
EVKGGYIIKV	DGKYVYLKD	AAHADNVRTK	DEINRQKQEH	VKDNEKVNSN	150
VAVARSQGRY	TTNDGYVFNP	ADIIEDTGNA	YIVPHGGHYH	YIPKSDLAS	200
ELAAAKAHLA	GKNMQPSQLS	YSSTASDNNT	QSVAKGSTSK	PANKSENLOS	250
LLKELYDSPS	AQRYSEDGL	VFDPAKIISR	TPNGVAIPHG	DHYHFIPYSK	300
LSALEEKIAR	MVPISGTGST	VSTNAKPNEV	VSSLGSLSSN	PSSLTTSKEL	350
SSASDGYIFN	PKDIVEETAT	AYIVRHGDHF	HYIPKSNQIG	QPTLPNNSLA	400
TPSPSLPINP	GTSHEKHEED	GYGFDANRII	AEDESGFVMS	HGDHNYFFFK	450
KDLTEEQIKA	AQKHLEEVKT	SHNGLDSLSS	HEQDYPGNAK	EMKDLDKKIE	500
EKIAGIMKQY	GVKRESIVVN	KEKNAIYPH	GDHHHADPID	EHKPVGIGHS	550
HSNYELFKPE	EGVAKKEGNK	VYTGEELTNV	VNLLKNSTFN	NQNFTLANGQ	600
KRVSFSPFPE	LEKKLGINML	VKLITPDGKV	LEKVSQKVFG	EGVGNIANFE	650
LDQPYLPQGT	FKYTIASKDY	PEVSYDGTFT	VPTSLAYKMA	SQTIFYPFHA	700
GDTYLRVNPQ	FAVPKGTDAL	VRVFDEFHGN	AYLENNYKVG	EIKLPIPKLN	750
QGTTRTAGNK	IPVTFMANAY	LDNQSTYIVE	VPILEKENQT	DKPSILPQFK	800
RNKAQENSKL	DEKVEEPKTS	EKVEKEKLSE	TGNSTSNSTL	EEVPTVDPVQ	850
EKVAKFAESY	GMKLENVLFN	MDGTIELYLP	SGEVIKKNMA	DFTGEAPQGN	900
GENKPSENGK	VSTGTVENQP	TENKPADSLP	EAPNEKPVKP	ENSTDNGMLN	950
PEGNVGSDPM	LDPALEEAPA	VDPVQEKLEK	FTASYGLGLD	SVIFNMDGTI	1000
ELRLPSGEVI	KKNLSDFIA				1019

(SEQ ID NO : 55)

FIGURE 20

CAYALNQHRS	QENKDNMRVS	YVDGSQSSQK	SENLTDPQVS	QKEGIQAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	SEELLMKDPN	YQLKDADIVN	100
EVKGGYIIKV	DGKYVYVLKD	AAHADNVRTK	DEINRQKQEH	VKDNEKVNSN	150
VAVARSQGRY	TTNDGYVFNP	ADIIEDTGNA	YIVPHGGHYH	YIPKSDLAS	200
ELAAAKAHLA	GKNMQPSQLS	YSSTASDNNT	QSVAKGSTSK	PANKSENLOS	250
LLKELYDSPA	AQRYSESDDL	VFDPAKIIIS	TPNGVAIPHG	DHYHFIPYSK	300
LSALEEKIAR	MVPISGTGST	VSTNAKPNEV	VSSLGSLSSN	PSSLTTSKEL	350
SSASDGYIFN	PKDIVEETAT	AYIVRHGDHF	HYIPKSNQIG	QPTLPNNSLA	400
TPSPSLPINP	GTSHEKHEED	GYGFDANRII	AEDESGFVMS	HGDHNNHYFFK	450
KDLTEEQIKA	AQKHLEEVKT	SHNGLDSLSS	HEQDYPGNA		489
(SEQ ID NO : 56)					

FIGURE 21

MKFSKKYIAA	GSIVIVSLSL	CAYALNQHRS	QENKDNMRVS	YVDGSQSSQK	SENLTDPQVS	60
QKEGIQAEQI	VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	SEELLMKDPN	YQLKDADIVN	120
EVKGGYIIKV	DGKYVYVLKD	AAHADNVRTK	DEINRQKQEH	VKDNEKVNSN	VAVARSQGRY	180
TTNDGYVFNP	ADIIEDTGNA	YIVPHGGHYH	YIPKSDLAS	ELAAAKAHLA	GKNMQPSQLS	240
YSSTASDNNT	QSVAKGSTSK	PANKSENLOS	LLKELYDSPA	AQRYSESDDL	VFDPAKIIIS	300
TPNGVAIPHG	DHYHFIPYSK	LSALEEKIAR	MVPISGTGST	VSTNAKPNEV	VSSLGSLSSN	360
PSSLTTSKEL	SSASDGYIFN	PKDIVEETAT	AYIVRHGDHF	HYIPKSNQIG	QPTLPNNSLA	420
TPSPSLPINP	GTSHEKHEED	GYGFDANRII	AEDESGFVMS	HGDHNNHYFFK	KDLTEEQIKA	480
AQKHLEEVKT	SHNGLDSLSS	HEQDYPGNA	(SEQ ID NO : 57)			509

FIGURE 22

DLTEEQIKAA	QKHLEEVKTS	HNGLDSLSSH	EQDYPGNAKE	MKDLDKKIEE	50
KIAGIMKQYG	VKRESIVVNK	EKNAIIPYHG	DHHHADPIDE	HKPVGIGHSH	100
SNYELFKPEE	GVAKKEGNKV	YTGEELTNVV	NLLKNSTFNN	QNFTLANGQK	150
RVSFSFPPEL	EKKLGINMLV	KLITPDGKVL	EKVSGKVFGE	GVGNIANFEL	200
DQPYLPQTF	KYTIASKDYP	EVSYDGTFTV	PTSLAYKMAS	QTIFYPPHAG	250
DTYLRVNPQF	AVPKGTDALV	RVFDEFHGNA	YLENNYKVGE	IKLPIPKLNQ	300
GTTRTAGNKI	PVTFMANAYL	DNQSTYIVEV	PILEKENQTD	KPSILPQFKR	350
NKAQENSKLD	EKVEEPTSE	KVEKEKLSET	GNSTSNSTLE	EVPTVDPVQE	400
KVAKFAESYG	MKLENVLFNM	DGTIELYLP	GEVIKKNMAD	FTGEAPQNG	450
ENKPSSENGV	STGTVENQPT	ENKPADSLPE	APNEKPKVPE	NSTDNGMLNP	500
EGNVGSDPML	DPALEEAPAV	DPVQEKLEKF	TASYGLGLDS	VIFNMDGTIE	550
LRLPSGEVIK	KNLSDFIAKL	RYRSNHWVPD	SRPEEPSQPQ	TPEPSPSPQP	600
APNPQPAPSN	PIDEKLVKEA	VRKVG DG YVF	EENGVSRYIP	AKNLSAETAA	650
GIDSKLAKQE	SLSHKLGAKE	TDLPSDDREF	YNKAYDLLAR	IHQDLLDNKG	700
RQVDFEALDN	LLERLKDVS	DKVKLVDDIL	AFLAPIRHPE	RLGKPNQIT	750
YTDDEIQVAK	LAGKYTTEDG	YIFDPRDITS	DEGDAYVTPH	MTHSHWIKKD	800
SLSEAERAAA	QAYAKEKGLT	PPSTDHQDSG	NTEAKGAEAI	YNRVKAAKKV	850
PLDRMPYNLQ	YTVEVKNGSL	IIPHYDHYHN	IKFEWFDEGL	YEAPKGYTLE	900
DLLATVKYYV	EHPNERPHSD	NGFGNASDHV	QRNKGQADT	NQTEKPSEEK	950
PQTEKPEEET	PREEKPQSEK	PESPKPTEEP	EEESPPESEE	PQVETEKVEE	1000
KLREAEDLLG	KIQDPIIKSN	AKETLTGLKN	NLLFGTQDNN	TIMAEAEKLL	1050
ALLKESK	(SEQ ID NO : 58)				1057

FIGURE 23

CAYALNQHRS	QENKDNRRVS	YVDGSQSSQK	SENLTDPQVS	QKEGIQAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	SEELLMKDPN	YQLKDADIVN	100
EVKGGYIIKV	DGKYVYVLKD	AAHADNVRTK	DEINRQKQEH	VKONEKVNSN	150
VAVARSQGRY	TTNDGYVFN	ADIIEDTGNA	YIVPHGGHYH	YIPKSDLAS	200
ELAAA	(SEQ ID NO : 59)				205

FIGURE 24

CAYELGLHQA	QTVKENNRVS	YIDGKQATQK	TENLTPDEV	KREGINAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDAII	SEELLMKDPN	YQLKDSDIVN	100
EIKGGYVIKV	NGKYVYVLKD	AAHADNVRTK	EEINRQKQEH	SQHREGGTS	150
NDGAVAFARS	QGRYTTDDGY	IFNASDIED	TGDAYIVPHG	DHYHYIPKNE	200
LSASELAAAE	AFLSGRENLS	NLRTYRRQNS	DNTPRTNWVP	SVSNPGTTNT	250
NTSNNSNTNS	QASQSNIDIS	LLKQLYKLPL	SQRHVESDGL	IFDPAQITSR	300
TARGVAVPHG	NHYHFIPYEQ	MSELEKRIAR	IIPLYRSNH	WVPDSRPEEP	350
SPQPTPEPSP	SPQPAPNPQP	APSNPIDEKL	VKEAVRKVGD	GYVFEENGVS	400
RYIPAKNLSA	ETAAGIDSKL	AKQESLSHKL	GAKKTDLPSS	DREFYNKAYD	450
LLARIHQDLL	DNKGRQVDFE	ALDNLLERLK	DVSSDKVKLV	DDILAFLLPI	500
RHPERLGKPN	AQITYTDDDEI	QVAKLAGKYT	TEDGYIFDPR	DITSDEGDAY	550
VTPHMTHSHW	IKKDSLSEAE	RAAAQAYAKE	KGLTPPSTDH	QDSGNTEAKG	600
AEAIYNRVKA	AKKVPLDRMP	YNLQYTVEVK	NGSLIIPHYD	HYHNIKFEWF	650
DEGLYEAPKG	YTLEDLLATV	KYYVEHPNER	PHSDNGFGNA	SDHVQRNKNG	700
QADTNQTEKP	SEEKPTTEKP	EEETPREEKP	QSEKPESPKP	TEEPPEESPE	750
ESEEPQVETE	KVEEKLREAE	DLGKIQDPI	IKSNAKETLT	GLKNNLLFGT	800
QDNNTIMAEA	EKLALLKES	K	((SEQ ID NO : 60)		821

FIGURE 25

CAYELGLHQA	QTVKENNRVS	YIDGKQATQK	TENLTPDEV	KREGINAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDAII	SEELLMKDPN	YQLKDSDIVN	100
EIKGGYVIKV	NGKYVYVLKD	AAHADNVRTK	EEINRQKQEH	SQHREGGTS	150
NDGAVAFARS	QGRYTTDDGY	IFNASDIED	TGDAYIVPHG	DHYHYIPKNE	200
LSASELAAAE	AFLSGRENLS	NLRTYRRQNS	DNTPRTNWVP	SVSNPGTTNT	250
NTSNNSNTNS	QASQSNIDIS	LLKQLYKLPL	SQRHVESDGL	IFDPAQITSR	300
TARGVAVPHG	NHYHFIPYEQ	MSELEKRIAR	IIPL		334
(SEQ ID NO : 61)					

FIGURE 26

RYRSNHWPDP	SRPEEPSQP	TPEPSPSPQP	APNPQPAPSN	PIDEKLVKEA	50
VRKVGDDGYV	EENGVSRYIP	AKNLSAETAA	GIDSKLAKQE	SLSHKLGAKE	100
TDLPSDDREF	YNKAYDLLAR	IHQDLLDNKG	RQVDFEALDN	LLERLKDVS	150
DKVKLVDDIL	AFLAPIRHPE	RLGKPNQAIT	YTDDEIQVAK	LAGKYTTEDG	200
YIFDPRDITS	DEGDAYVTPH	MTHSHWIKKD	SLSEAERAAA	QAYAKEKGLT	250
PPSTDHQDSG	NTEAKGAEAI	YNRVKAAKKV	PLDRMPYNLQ	YTVEVKNGSL	300
IIPHYDHYHN	IKFEWFDEGL	YEAPKGYTLE	DLLATVKYYV	EHPNERPHSD	350
NGFGNASDHV	QRNKNGQADT	NQTEKPSEEK	PQTEKPEEET	PREEKPQSEK	400
PESPKPTEEP	EEESPEESEE	PQVETEKVEE	KLREAEDLLG	KIQDPIIKSN	450
AKETLTGLKN	NLLFGTQDNN	TIMAEAEKLL	ALLKESK		487
(SEQ ID NO : 62)					

FIGURE 27

AEAFLSGREN	LSNLRTYRRO	NSDNTPRTNW	VPSVSNPGTT	NTNTSNNST	50
NSQASQSDI	DSLLKQLYKL	PLSQRHVESD	GLIFDPAQIT	SRTARGVAVP	100
HGNHYHFIPY	EQMSELEKRI	ARIIPLRYS	NHWVPDSRPE	EPSPQPTPEP	150
SPSPQPAPNP	QPAPSNPIDE	KLVKEAVRKV	GDGYVFEENG	VSRYIPAKNL	200
SAETAAGIDS	KLAKQESLSH	KLGAKTDLDP	SSDREFYNKA	YDLLARIHQD	250
LLDNKGRQVD	FEALDNLLER	LKDVSSDKVK	LVDDILAFLA	PIRHPERLGK	300
PNAQITYTDD	EQVAKLAGK	YTTEDGYIFD	PRDITSDEGD	AYVTPHMTS	350
HWIKKDSLSE	AERAAAQAYA	KEKGLTPPST	DHQDSGNTEA	KGAEAIYNRV	400
KAARKVPLDR	MPYNLQYTV	VKNGSLIIPH	YDHYHNIKFE	WFDEGLYEAP	450
KGYTLEDLLA	TVKYYVEHPN	ERPHSDNGFG	NASDHVQRNK	NGQADTNQTE	500
KPSEEKQTE	KPEEETPREE	KPQSEKPESP	KPTEEPPEES	PEESEEPQVE	550
TEKVEEKLRE	AEDLLGKIQD	PIIKSNAKET	LTGLKNNLLP	GTQDNNTIMA	600
EAEKLLALLK	ESK	(SEQ ID NO : 63)			613

FIGURE 28

DLTEEQIKAA	QKHLEEVKTS	HNGLDSSLSSH	EQDYPGNAKE	MKDLDKKIEE	50
KIAGIMKQYG	VKRESIVVNK	EKNAIIPYHG	DHHHADPIDE	HKPVGIGHSH	100
SNYELFKPEE	GVAKKEGNKV	YTGEELTNVV	NLLKNSTFNN	QNFTLANGQK	150
RVSFSFPPEL	EKKLGINMLV	KLITPDGKVL	EKVSGKVFG	GVGNIANFEL	200
DQPYLPGQTF	KYTIASKDYP	EVSYDGTFTV	PTSLAYKMAS	QTIFYPFHAG	250
DTYLRVNPQF	AVPKGTDALV	RVFDEFHGNA	YLENNYKVGE	IKLPIPKLNQ	300
GTTRTAGNKI	PVTFMANAYL	DNQSTYIVEV	PILEKENQTD	KPSILPQFKR	350
NKAQENSKLD	EKVEEPTSE	KVEKEKLSET	GNSTSNSTLE	EVPTVDPVQE	400
KVAKFAESYG	MKLENVLFNM	DGTIELYLPS	GEVIKKNMAD	FTGEAPQGNG	450
ENKPSENGKV	STGTVENQPT	ENKPADSLPE	APNEKPVKPE	NSTDNGMLNP	500
EGNVGSDPML	DPALEEAPAV	DPVQEKLEKF	TASYGLGLDS	VIFNMDGTIE	550
LRLPSGEVIK	KNLSDFIA	(SEQ ID NO : 64)			568

FIGURE 29

DLTEEQIKAA	QKHLEEVKTS	HNGLDSSLSSH	EQDYPGNAKE	MKDLDKKIEE	50
KIAGIMKQYG	VKRESIVVNK	EKNAIIPYHG	DHHHADPIDE	HKPVGIGHSH	100
SNYELFKPEE	GVAKKEGNKV	YTGEELTNVV	NLLKNSTFNN	QNFTLANGQK	150
RVSFSFPPEL	EKKLGINMLV	KLITPDGKVL	EKVSGKVFG	GVGNIANFEL	200
DQPYLPGQTF	KYTIASKDYP	EVSYDGTFTV	PTSLAYKMAS	QTIFYPFHAG	250
DTYLRVNPQF	AVPKGTDALV	RVFDEFHGNA	YLENNYKVGE	IKLPIPKLNQ	300
GTTRTAGNKI	PVTFMANAYL	DNQSTYIVE	(SEQ ID NO : 65)		329

FIGURE 30

EVPILEKENQ	TDKPSILPQF	KRNKAQENSK	LDEKVEEPT	SEKVEKEKLS	50
ETGNSTSNST	LBEVPTVDPV	QEKVAKFAES	YGMKLENVLF	NMDGTIELYL	100
PSGEVIKKNM	ADFTGEAPQG	NGENKPSENG	KVSTGTVENQ	PTENKPADSL	150
PEAPNEKPVK	PENSTDNMGL	NPEGNVGSDP	MLDPALEEAP	AVDPVQEKLE	200
KFTASYGLGL	DSVIFNMDGT	IELRLPSGEV	IKKNLSDFIA		240
(SEQ ID NO : 66)					

FIGURE 31

DIDSLKQLY	KLPLSQRHVE	SDGLIFDPAQ	ITSRTARGVA	VPHGNHYHFI	50
PYEQMSELEK	RIARIIPLY	RSNHVWVDSR	PEEPSQPTP	EPSPSPQAP	100
NPQPAPSNPI	DEKLVKEAVR	KVG DGYVFEE	NGVSRYIPAK	NLSAETAAGI	150
DSKLAKQESL	SHKLGAKKTD	LPSSDREFYN	KAYDLLARIH	QDLLDNKGRQ	200
VDFEALDNLL	ERLKDVSDDK	VKLVDLILAF	LAPIRHPERL	GKPNAQITYT	250
DDEIQVAKLA	GKYTTEDGYI	FDPRDITSDE	GDAYVTPHMT	HSHWIKKDSL	300
SEAERAAAQA	YAKEKGLTPP	STDHQDSGNT	EAKGAEAIYN	RVKAAKKVPL	350
DRMPYNLQYT	VEVKNGSLII	PHYDHYHNIK	FEWFDEGLYE	APKGYTLEDL	400
LATVKYYVEH	PNERPHSDNG	FGNASDHVQR	NKNGQADTNQ	TEKPSEEKPO	450
TEKPEEETPR	EEKPQSEKPE	SPKPTEEPEE	ESPEESEEPQ	VETEKVEEKL	500
REAEDLLGKI	QDPIIKSNAK	ETLTGLKNNL	LFGTQDNNTI	MAEAEKLLAL	550
LKESK	(SEQ ID NO : 67)				555

FIGURE 32

DIDSLKQLY	KLPLSQRHVE	SDGLIFDPAQ	ITSRTARGVA	VPHGNHYHFI	50
PYEQMSELEK	RIARIIPLY	RSNHVWVDSR	PEEPSQPTP	EPSPSPQAP	100
NPQPAPSNPI	DEKLVKEAVR	KVG DGYVFEE	NGVSRYIPAK	NLSAETAAGI	150
DSKLAKQESL	SHKLGAKKTD	LPSSDREFYN	KAYDLLARIH	QDLLDNKGRQ	200
VDFEALDNLL	ERLKDVSDDK	VKLVDLILAF	LAPIRHPERL	GKPNAQITYT	250
DDEIQVAKLA	GKYTTEDGYI	FDPRDITSDE	GDAYVTPHMT	HSHWIKKDSL	300
SEAERAAAQA	YAKEKGLTPP	STDHQDSGNT	EAKGAEAIYN	RVKAAKKVPL	350
DRMPYNLQYT	VEVKNGSLII	PHYDHYHNIK	FEWFDEGLYE	APKGYTLEDL	400
LATVKYYVEH	PNERPHSDNG	FGNASDHV	(SEQ ID NO : 68)		428

FIGURE 33

GLYEAPKGYT	LEDLLATVKY	YVEHPNERPH	SDNGFGNASD	HVQRNKGQA	50
DTNQTEKPSE	EKPQTEKPEE	ETPREEKPOS	EKPESPKPTE	EPEEESPEES	100
EEPQVETEKV	EEKLREAEDL	L	(SEQ ID NO : 69)		121

FIGURE 34

ASDHVQRNKN	GQADTNQTEK	PSEEKQTEK	PEEETPREEK	PQSEKPESPK	50
PTEEPPEESP	EESEEPQVET	EKVEEKLREA	EDLLGKIQDP	IIKSNAKETL	100
TGLKNNLLFG	TQDNNTIMAE	AEKLLALLKE	SK		132
(SEQ ID NO : 70)					

FIGURE 35

DIDSLKQLY	KLPLSQRHVE	SDGLIFDPAQ	ITSRTARGVA	VPHGNHYHFI	50
PYEQMSELEK	RIARIIPRLY	RSNHWVPDSR	PEEPSPOPTP	EPSPSPQPAP	100
NPQPAPSNPI	DEKLVEAVR	KVGDGYVFEE	NGVSRYIPAK	NLSAETAAGI	150
DSKLAKQESL	SHKLGAKKTD	LPSSDREFYN	KAYDLLARIH	QDLLDNKGRQ	200
VDFEALDNL	ERLKDVSDDK	VKLVD	(SEQ ID NO : 71)		226

FIGURE 36

DILAFLAPIR	HPERLGKPN	QITYTDDEIQ	VAKLAGKYTT	EDGYIFDPRD	50
ITSDEGDYV	TPHMTSHWI	KKDSLSEAER	AAAQAYAKEK	GLTPPSTDHQ	100
DSGNTAKGA	EAIYNRVKA	KKVPLDRMPY	NLQYTVEVKN	GSLIIPHYDH	150
YHNIKFEWFD	EGLYEAPKGY	TLEDLLATVK	YYVEHPNERP	HSDNGFGNAS	200
DHV	(SEQ ID NO : 72)				203

FIGURE 37

CSYELGRHQA	GQVKKESNRV	SYIDGDQAGQ	KAENLTPDEV	SKREGINAEQ	50
IVIKITDQGY	VTSHGDHYHY	YNGKVPYDAI	ISELLMKOP	NYQLKDSDIV	100
NEIKGGYVIK	VDGKYVYVLK	DAAHADNIRT	KKEIKRQKQE	HSNNHNSRAD	150
NAVAAARAQG	RYTTDDGYIF	NASDIIEDTG	DAYIVPHGDH	YHYIPKNELS	200
ASELAAAEAY	WNGKQGSRPS	SSSSYNANPV	QPRLSENHNL	TVTPTYHQNQ	250
GENISSLLRE	LYAKPLSERH	VESDGLIFDP	AQITSRTARG	VAVPHGNHYH	300
FIPYEQMSEL	EKRIARIIPL	RYRSNHWVPD	SRPEQSPSPQ	TPEPSPSLQP	350
APNPQPAPSN	PIDEKLVEKA	VRKVGDDGYV	EENGVSRYIP	AKDLSAETAA	400
GIDSKLAKQE	SLSHKLGAKK	TDLPSDDREF	YNKAYDLLAR	IHQDLLDNKG	450
RQVDFEVLN	LLERLKDVS	DKVKLVDDIL	AFLAPIRHPE	RLGKPNQIT	500
YTDEIQVAK	LAGKYTTEDG	YIFDPRDITS	DEGDYVTPH	MTHSHWIKKD	550
SLSEAERAAA	QAYAKEKGLT	PPSTDHQDSG	NTEAKGAEAI	YNRVKAACKV	600
PLDRMPYNLQ	YTVEVKNGSL	IIPHYDHYHN	IKFEWFDEGL	YEAPKGYSLE	650
DLLATVKYYV	EHPNERPHSD	NGFGNASDHV	RKNKADQDSK	PDEDKEHDEV	700
SEPTHPESDE	KENHAGLNPS	ADNLYKPSTD	TEETEEEAED	TTDEAEIPQV	750
ENSVINAKIA	DAEALLEKVT	DPSIRQNAME	TLTGLKSSLL	LGTKDNNTIS	800
AEVDSLLALL	KESQPAPIQ	(SEQ ID NO : 73)			819

FIGURE 38

ENISSLLREL	YAKPLSERHV	ESDGLIFDPA	QITSRTARGV	AVPHGNHYHF	50
IPYEQMSELE	KRIARIIPLR	YRSNHWVPDS	RPEQSPPOST	PEPSPSLQPA	100
PNPQPAPSNP	IDKLVEAVR	RKVGDDGYVFE	ENGVSRYIPA	KDLSAETAAG	150
IDSKLAKQES	LSHKLGAKKT	DLPSSDREFY	NKAYDLLARI	HQDLLDNKGR	200
QVDFEVLN	LERLKDVSDD	KVKLVDDILA	FLAPIRHPER	LGPNAQITY	250
TDDEIQVAKL	AGKYTTEDGY	IFDPRDITS	EGDAYVTPHM	THSHWIKKDS	300
LSEAERAAAQ	AYAKEKGLTP	PSTDHQDSGN	TEAKGAEAIY	NRVKAACKVP	350
LDRMPYNLQY	TVEVKNGSLI	IPHYDHYHNI	KFEWFDEGLY	EAPKGYSLED	400
LLATVKYYVE	HPNERPHSDN	GFGNASDHVR	KNKADQDSKP	DEDKEHDEVS	450
EPHTHPESDEK	ENHAGLNPSA	DNLYKPSTD	EETEEEAEDT	TDEAEIPQVE	500
NSVINAKIAD	AEALLEKVT	PSIRQAMET	LTGLKSSLLL	GTKDNNTISA	550
EVDSLLALLK	ESQPAPIQ	(SEQ ID NO : 74)			568

FIGURE 39

VRKNKADQDS	KPDEDKEHDE	VSEPTHPESD	EKENHAGLNP	SADNLYKPST	50
DTEETEEAE	DTTDEAEIPQ	VENSVINAKI	ADAEALLEKV	TDPSIRQNAM	100
ETLTGLKSSL	LLGTKONNTI	SAEVDSLALL	LKESQPAPIQ		140

(SEQ ID NO : 75)

FIGURE 40

GACTTGACAG	AAGAGCAAAT	TAAGGCTGCG	CAAAAACATT	TAGAGGAAGT	50
TAAACTAGT	CATAATGGAT	TAGATTCTTT	GTCATCTCAT	GAACAGGATT	100
ATCCAGGTAA	TGCCAAAGAA	ATGAAAGATT	TAGATAAAAA	AATCGAAGAA	150
AAAATTGCTG	GCATTATGAA	ACAATATGGT	GTCAAACGTG	AAAGTATTGT	200
CGTGAATAAA	GAAAAAATG	CGATTATTTA	TCCGCATGGA	GATCACCATC	250
ATGCAGATCC	GATTGATGAA	CATAAACCGG	TTGGAATTGG	TCATTCTCAC	300
AGTAACTATG	AACTGTTTAA	ACCCGAAGAA	GGAGTTGCTA	AAAAAGAAGG	350
GAATAAAGTT	TATACTGGAG	AAGAATTAAC	GAATGTTGTT	AATTTGTTAA	400
AAAATAGTAC	GTTTAATAAT	CAAAACTTTA	CTCTAGCCAA	TGGTCAAAAA	450
CGCGTTTCTT	TTAGTTTTC	GCCTGAATTG	GAGAAAAAAT	TAGGTATCAA	500
TATGCTAGTA	AAATTAATAA	CACCAGATGG	AAAAGTATTG	GAGAAAGTAT	550
CTGGTAAAGT	ATTTGGAGAA	GGAGTAGGGA	ATATTGCAAA	CTTTGAATTA	600
GATCAACCTT	ATTTACCAGG	ACAAACATTT	AAGTATACTA	TCGCTTCAAA	650
AGATTATCCA	GAAGTAAGTT	ATGATGGTAC	ATTTACAGTT	CCAACCTCTT	700
TAGCTTACAA	AATGGCCAGT	CAAACGATTT	TCTATCCTTT	CCATGCAGGG	750
GATACTTATT	TAAGAGTGAA	CCCTCAATTT	GCAGTGCCTA	AAGGAAGTGA	800
TGCTTTAGTC	AGAGTGTTTG	ATGAATTTCA	TGGAATGCT	TATTTAGAAA	850
ATAACTATAA	AGTTGGTGAA	ATCAAATTAC	CGATTCCGAA	ATTAAACCAA	900
GGAACAACCA	GAACGGCCGG	AAATAAAATT	CCTGTAACCT	TCATGGCAAA	950
TGCTTATTTG	GACAATCAAT	CGACTTATAT	TGTGGAAGTA	CCTATCTTGG	1000
AAAAAGAAAA	TCAAAGTAT	AAACCAAGTA	TTCTACCACA	ATTTAAAAGG	1050
AATAAAGCAC	AAGAAAACTC	AAAACCTGAT	GAAAAGGTAG	AAGAACCAAA	1100
GACTAGTGAG	AAGGTAGAAA	AAGAAAAACT	TTCTGAAACT	GGGAATAGTA	1150
CTAGTAATTC	AACGTTAGAA	GAAGTTCCCTA	CAGTGGATCC	TGTACAAGAA	1200
AAAGTAGCAA	AATTTGCTGA	AAGTTATGGG	ATGAAGCTAG	AAAATGTCTT	1250
GTTTAATATG	GACGGAACAA	TTGAATTATA	TTTACCATCA	GGAGAAGTCA	1300
TTAAAAAGAA	TATGGCAGAT	TTTACAGGAG	AAGCACCTCA	AGGAAATGGT	1350
GAAAAATAAC	CATCTGAAAA	TGGAAGTA	TCTACTGGAA	CAGTTGAGAA	1400
CCAACCAACA	GAAAAATAAC	CAGCAGATTC	TTTACCAGAG	GCACCAACG	1450
AAAAACCTGT	AAAAACCAGAA	AACTCAACGG	ATAATGGAAT	GTTGAATCCA	1500
GAAGGGAATG	TGGGGAGTGA	CCCTATGTTA	GATCCAGCAT	TAGAGGAAGC	1550
TCCAGCAGTA	GATCCTGTAC	AAGAAAAATT	AGAAAAATTT	ACAGCTAGTT	1600
ACGGATTAGG	CTTAGATAGT	GTTATATTCA	ATATGGATGG	AACGATTGAA	1650
TTAAGATTGC	CAAGTGAGAG	AGTGATAAAA	AAGAATTTAT	CTGATTTTAT	1700
AGCGAAGCTT	CGTTATCGTT	CAAACCATTG	GGTACCAGAT	TCAAGACCAG	1750
AAGAACCAAG	TCCACAACCG	ACTCCAGAAC	CTAGTCCAAG	TCCGCAACCT	1800
GCACCAATC	CTCAACCAGC	TCCAAGCAAT	CCAATTGATG	AGAAATTGGT	1850
CAAAGAAGCT	GTTTCGAAAAG	TAGGCGATGG	TTATGTCTTT	GAGGAGAATG	1900
GAGTTTCTCG	TTATATCCCA	GCCAAGAATC	TTTCAGCAGA	AACAGCAGCA	1950
GGCATTGATA	GCAAACTGGC	CAAGCAGGAA	AGTTTATCTC	ATAAGCTAGG	2000
AGCTAAGAAA	ACTGACCTCC	CATCTAGTGA	TCGAGAATTT	TACAATAAGG	2050
CTTATGACTT	ACTAGCAAGA	ATTCACCAAG	ATTTACTTGA	TAATAAAGGT	2100
CGACAAGTTG	ATTTTGAGGC	TTTGATAAAG	CTGTTGGAAC	GACTCAAGGA	2150
TGTCTCAAGT	GATAAAGTCA	AGTTAGTGGA	TGATATTCTT	GCCTTCTTAG	2200
CTCCGATTCG	TCATCCAGAA	CGTTTAGGAA	AACCAAATGC	GCAAATTACC	2250
TACACTGATG	ATGAGATTCA	AGTAGCCAAG	TTGGCAGGCA	AGTACACAAC	2300
AGAAGACGGT	TATATCTTTG	ATCCTCGTGA	TATAACCAGT	GATGAGGGGG	2350
ATGCCTATGT	AACTCCACAT	ATGACCCATA	GCCACTGGAT	TAAAAAAGAT	2400

AGTTTGTCTG	AAGCTGAGAG	AGCGGCAGCC	CAGGCTTATG	CTAAAGAGAA	2450
AGGTTTGACC	CCTCCTTCGA	CAGACCATCA	GGATTCAGGA	AATACTGAGG	2500
CAAAAGGAGC	AGAAGCTATC	TACAACCGCG	TGAAAGCAGC	TAAGAAGGTG	2550
CCACTTGATC	GTATGCCTTA	CAATCTTCAA	TATACTGTAG	AAGTCAAAAA	2600
CGGTAGTTTA	ATCATACCTC	ATTATGACCA	TTACCATAAC	ATCAAATTTG	2650
AGTGGTTTGA	CGAAGGCCTT	TATGAGGCAC	CTAAGGGGTA	TACTCTTGAG	2700
GATCTTTTGG	CGACTGTCAA	GTACTATGTC	GAACATCCAA	ACGAACGTCC	2750
GCATTTCAGAT	AATGGTTTTG	GTAACGCTAG	CGACCATGTT	CAAAGAAACA	2800
AAAATGGTCA	AGCTGATACC	AATCAAACGG	AAAAACCAAG	CGAGGAGAAA	2850
CCTCAGACAG	AAAAACCTGA	GGAAGAAAAC	CCTCGAGAAG	AGAAACCACA	2900
AAGCGAGAAA	CCAGAGTCTC	CAAAACCAAC	AGAGGAACCA	GAAGAAGAAT	2950
CACCAGAGGA	ATCAGAAGAA	CCTCAGGTCG	AGACTGAAAA	GGTTGAAGAA	3000
AAACTGAGAG	AGGCTGAAGA	TTTACTTGGA	AAAATCCAGG	ATCCAATTAT	3050
CAAGTCCAAT	GCCAAAGAGA	CTCTCACAGG	ATTAAAAAAT	AATTTACTAT	3100
TTGGCACCCA	GGACAACAAT	ACTATTATGG	CAGAAGCTGA	AAAACATTG	3150
GCTTTATTAA	AGGAGAGTAA	G	(SEQ ID NO : 76)		3171

FIGURE 41

EAYWNGKQGS	RPSSSSSYNA	NPVQPRLEN	HNLTVTPTYH	QNQGENISL	50
LRELYAKPLS	ERHVESDGLI	FDPAQITSRT	ARGVAVPHGN	HYHFIPYEQM	100
SELEKRIARI	IPLRYRSNHW	VPDSRPEQPS	PQSTPEPSPS	LQPAPNPQPA	150
PSNPIDEKLV	KEAVRKVG DG	YVFEENGVS R	YIPAKDLSAE	TAAGIDSKLA	200
KQESLSHKL G	AKKTDLPSSD	REFYNKAYDL	LARIHQDLLD	NKGRQVDFEV	250
LDNLLERLKD	VSSDKVKLVD	DILAFLAPIR	HPERLGKPNA	QITYTDDEIQ	300
VAKLAGKYTT	EDGYIFDPRD	ITSDEGDAYV	TPHMTSHSWI	KKDSLSEAER	350
AAAQAYAKEK	GLTPPSTDHQ	DSGNTEAKGA	EAIYNRVKAA	KKVPLDRMPY	400
NLQYTVEVKN	GSLIIPHYDH	YHNIKFEWFD	EGLYEAPKGY	SLEDLLATVK	450
YYVEHPNERP	HSDNGFGNAS	DHV	(SEQ ID NO : 77)		473

FIGURE 42

CAYALNQHRS	QENKDNNRVS	YVDGSQSSQK	SENLTDPQVS	QKEGIQAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDALF	SEELLMKDPN	YQLKDADIVN	100
EVKGGYIIKV	DGKYVYVLKD	AAHADNVRTK	DEINRQKQEH	VKDNEKVNSN	150
VAVARSQGRY	TTNDGYVFNP	ADIIEDTGNA	YIVPHGGHYH	YIPKSDLSAS	200
ELAAAKAHLA	GKNMQPSQLS	YSSTASDNNT	QSVAKGSTSK	PANKSENLSQ	250
LLKELYDSPA	AQRYSESDGL	VFDPAKIISR	TPNGVAIPHG	DHYHFIPYSK	300
LSALEEKIAR	MVPISGTGST	VSTNAKPNEV	VSSLGSLSSN	PSSLTTSKEL	350
SSASDGYIFN	PKDIVEETAT	AYIVRHGDHF	HYIPKSNQIG	QPTLPNNSLA	400
TPSPSLPINP	GTSHEKHEED	GYGFDANRII	AEDESGFVMS	HGDHNHYFFK	450
KDLTEEQIKA	AQKHLEEVKT	SHNGLDSLSS	HEQDYPGNAK	EMKDLDDKIE	500
EKIAGIMKQY	GVKRESIVVN	KEKNAIYYPH	GDHHHADPID	EHKPVGIGHS	550
HSNYELFKPE	EGVAKKEGNK	VYTGEELTNV	VNLLKNSTFN	NQNFTLANGQ	600
KRVSFSPPE	LEKKLGINML	VKLITPDGKV	LEKVSQKVF	EGVGNIANFE	650
LDQPYLPGQT	FKYTIASKDY	PEVSYDGTFT	VPTSLAYKMA	SQTIFYPFHA	700
GDTYLRVNPQ	FAVPKGTDAL	VRVFDEFHGN	AYLENNYKVG	EIKLPIPKLN	750
QGTTRTAGNK	IPVTFMANAY	LDNQSTYIVE	(SEQ ID NO : 78)		780

FIGURE 43

CAYELGLHQA	QTVKENNRVS	YIDGKQATQK	TENLTPDEVS	KREGINAEQI	50
VIKITDQGYV	TSHGDHYHY	NGKVPYDAII	SEELLMKDPN	YQLKDSDIVN	100
EIKGGYVIKV	NGKYVYVLKD	AAHADNVRTK	EEINRQKQEH	SQHREGGTS	150
NDGAVAFARS	QGRYTTDDGY	IFNASDIIED	TGDAYIVPHG	DHYHYIPKNE	200
LSASELAAAE	AFLSGRENLS	NLRTYRRQNS	DNTPRTNWVP	SVSNPGTTNT	250
NTSNNSNTNS	QASQSNDDIDS	LLKQLYKLPL	SQRHVESDGL	IFDPAQITSR	300
TARGVAVPHG	NHYHFIPYEQ	MSELEKRIAR	IIPLRYSNH	WVPDSRPEEP	350
SPQPTPEPSP	SPQPAPNPQP	APSNPIDEKL	VKEAVRKVG	DGYVFEENGVS	400
RYIPAKNLSA	ETAAGIDSKL	AKQESLSHKL	GAKKTDLPSS	DREFYNKAYD	450
LLARIHQDLL	DNKGRQVDFE	ALDNLLERLK	DVSSDKVKLV	DDILAFLLPI	500
RHPERLGKPN	AQITYTDEI	QVAKLAGKYT	TEDGYIFDPR	DITSDEGDAY	550
VTPHMTSHSW	IKKDSLSEAE	RAAAQAYAKE	KGLTPPSTDH	QDSGNTEAKG	600
AEAIYNRVKA	AKKVPLDRMP	YNLQYTVEVK	NGSLIIPHYD	HYHNIKFEWF	650
DEGLYEAPKG	YTLEDLLATV	KYYVEHPNER	PHSDNGFGNA		690

(SEQ ID NO : 79)

FIGURE 44

GTGAAGAAAA	CATATGGTTA	TATCGGCTCA	GTTGCTGCCA	TTTTACTAGC	TACTCATATT	60
GGAAGTTACC	AACTTGGTAA	GCATCATATG	GGTCTAGCAA	CAAAGGACAA	TCAGATTGCC	120
TATATTGATG	ACAGCAAAGG	TAAGGCAAAA	GCCCCTAAAA	CAAACAAAAC	GATGGATCAA	180
ATCAGTGTCTG	AAGAAGGCAT	CTCTGCTGAA	CAGATCGTAG	TCAAAATTAC	TGACCAAGGC	240
TATGTGACCT	CACACGGTGA	CCATTATCAT	TTTTACAATG	GGAAAGTTCC	TTATGATGCG	300
ATTATTAGTG	AAGAGTTGTT	GATGACGGAT	CCTAATTACC	GTTTTAAACA	ATCAGACGTT	360
ATCAATGAAA	TCTTAGACGG	TTACGTTATT	AAAGTCAATG	GCAACTATTA	TGTTTACCCTC	420
AAGCCAGGTA	GTAAGCGCAA	AAACATTCTGA	ACCAAACAAC	AAATTGCTGA	GCAAGTAGCC	480
AAAGGAACTA	AAGAAGCTAA	AGAAAAAGGT	TTAGCTCAAG	TGGCCCATCT	CAGTAAAGAA	540
GAAGTTGCGG	CAGTCAATGA	AGCAAAAAGA	CAAGGACGCT	ATACTACAGA	CGATGGCTAT	600
ATTTTTAGTC	CGACAGATAT	CATTGATGAT	TTAGGAGATG	CTTATTTAGT	ACCTCATGGT	660
AATCACTATC	ATTATATTCC	TAAAAAGGAT	TTGTCTCCAA	GTGAGCTAGC	TGCTGCACAA	720
GCCTACTGGA	GTCAAAAACA	AGGTCGAGGT	GCTAGACCGT	CTGATTACCG	CCCGACACCA	780
GCCCCAGGTC	GTAGGAAAGC	CCCAATTCTT	GATGTGACGC	CTAACCCTGG	ACAAGGTCAT	840
CAGCCAGATA	ACGGTGGCTA	TCATCCAGCG	CCTCCTAGGC	CAAATGATGC	GTCACAAAAC	900
AAACACCAAA	GAGATGAGTT	TAAAGGAAAA	ACCTTTAAGG	AACTTTTAGA	TCAACTACAC	960
CGTCTTGATT	TGAAATACCG	TCATGTGGAA	GAAGATGGGT	TGATTTTTGA	ACCGACTCAA	1020
GTGATCAAAT	CAAACGCTTT	TGGGTATGTG	GTGCCTCATG	GAGATCATT	TCATATTATC	1080
CCAAGAAGTC	AGTTATCACC	TCTTGAAATG	GAATTAGCAG	ATCGATACTT	AGCTGGCCAA	1140
ACTGAGGACA	ATGACTCAGG	TTCAGAGCAC	TCAAAACCAT	CAGATAAAGA	AGTGACACAT	1200
ACCTTTCTTG	GTCATCGCAT	CAAAGCTTAC	GGAAAAGGCT	TAGATGGTAA	ACCATATGAT	1260
ACGAGTGATG	CTTATGTTTT	TAGTAAAGAA	TCCATTCAAT	CAGTGGATAA	ATCAGGAGTT	1320
ACAGCTAAAC	ACGGAGATCA	TTTCCACTAT	ATAGGATTTG	GAGAACTTGA	ACAATATGAG	1380
TTGGATGAGG	TCGCTAACTG	GGTGAAAGCA	AAAGGTCAAG	CTGATGAGCT	TGCTGCTGCT	1440
TTGGATCAGG	AACAAGGCAA	AGAAAAACCA	CTCTTTGACA	CTAAAAAAGT	GAGTCGCAAA	1500
GTAACAAAAG	ATGGTAAAGT	GGGCTATATG	ATGCCAAAAG	ATGGTAAGGA	CTATTTCTAT	1560
GCTCGTGATC	AACTTGATTT	GAATCAGATT	GCCTTTGCCG	AACAAGAAGT	AATGCTTAAA	1620
GATAAGAAGC	ATTACCGTTA	TGACATTGTT	GACACAGGTA	TTGAGCCACG	ACTTGCTGTA	1680
GATGTGTCAA	GTCTGCCGAT	GCATGCTGGT	AATGCTACTT	ACGATACTGG	AAGTTCGTTT	1740
GTTATCCAC	ATATTGATCA	TATCCATGTC	GTTCCGTATT	CATGGTTGAC	GCGCGATCAG	1800
ATTGCAACAG	TCAAGTATGT	GATGCAACAC	CCCGAAGTTC	GTCCGGATGT	ATGGTCTAAG	1860
CCAGGGCATG	AAGAGTCAGG	TTCGGTCATT	CCAAATGTTA	CGCCTCTTGA	TAAACGTGCT	1920
GGTATGCCAA	ACTGGCAAAT	TATCCATTCT	GCTGAAGAAG	TTCAAAAAGC	CCTAGCAGAA	1980
GGTCGTTTTG	CAACACCAGA	CGGCTATATT	TTCGATCCAC	GAGATGTTTT	GGCCAAAGAA	2040
ACTTTTGTAT	GGAAAGATGG	CTCCTTTAGC	ATCCCAAGAG	CAGATGGCAG	TTCATTGAGA	2100
ACCATTAATA	AATCTGATCT	ATCCCAAGCT	GAGTGGCAAC	AAGCTCAAGA	GTTATTGGCA	2160
AAGAAAAATA	CTGGTGATGC	TACTGATACG	GATAAACCCA	AAGAAAAGCA	ACAGGCAGAT	2220
AAGAGCAATG	AAAACCAACA	GCCAAGTGAA	GCCAGTAAAG	AAGAAAAGA	ATCAGATGAC	2280
TTTATAGACA	GTTTACCAGA	CTATGGTCTA	GATAGAGCAA	CCCTAGAAGA	TCATATCAAT	2340
CAATTAGCAC	AAAAAGCTAA	TATCGATCCT	AAGTATCTCA	TTTTCCAACC	AGAAGGTGTC	2400
CAATTTTATA	ATAAAAATGG	TGAATTGGTA	ACTTATGATA	TCAAGACACT	TCAACAAATA	2460
AACCTTTAA	(SEQ ID NO : 80)					2469

FIGURE 45

VKTTYGYIGS	VAAILLATHI	GSYQLGKHHM	GLATKDNQIA	YIDDSKGKAK	50
APKTNKTMQ	ISAEEGISAE	QIVVKITDQG	YVTSHGDHYH	FYNGKVPYDA	100
IISEELLMTD	PNYRFKQSDV	INEILDGYVI	KVNGNYVYVL	KPGSKRKNIR	150
TKQQIAEQVA	KGTKEAKEKG	LAQVAHLSKE	EVAAVNEAKR	QGRTTDDGY	200
IFSPTDIIDD	LGDAYLVPHG	NHYHYIPKKD	LSPSELAAAQ	AYWSQKQGRG	250
ARPSDYRPTP	APGRRKAPIP	DVTPNPGQGH	QPDNGGYHPA	PPRPNDASQN	300
KHQRFDFKKG	TFKELLDQLH	RLDLKYRHVE	EDGLIFEPTQ	VIKSNAFGYV	350
VPHGDHYHII	PRSQLSPLEM	ELADRYLAGQ	TEDNDSGSEH	SKPSDKEVTH	400
TFLGHRIKAY	GKGLDGKPYD	TSDAYVFSKE	SIHSVDKSGV	TAKHGDHFHY	450
IGFGELEQYE	LDEVANWVKA	KGQADELAAA	LDQEQGKEKP	LFDTKKVSRK	500
VTKDGGKGYM	MPKDGKDYFY	ARDQLDLTQI	AFAEQELMLK	DKKHRYRDI	550
DTGIEPRLAV	DVSSLPMHAG	NATYDTGSSF	VIPHIDHIHV	VPYSWLTRDQ	600
IATVKYVMQH	PEVRPDVWSK	PGHEESGSGVI	PNVTPLDKRA	GMPNWKIHS	650
AEEVQKALAE	GRFATPDGYI	FDPRDVLAKE	TFVWKDGSFS	IPRADGSSLR	700
TINKSDLSQA	EWQQAQELLA	KKNTGDATDT	DKPKEKQQAD	KSNNQQPSE	750
ASKEEKESDD	FIDSLPDYGL	DRATLEDHIN	QLAQKANIDP	KYLIFQPEGV	800
QFYKNKGLV	TYDIKTLQOI	NPP	(SEQ ID NO : 81)		823

FIGURE 46

GTGAAGAAAA	CATATGGTTA	TATCGGCTCA	GTTGCTGCCA	TTTTACTAGC	TACTCATATT	60
GGAAGTTACC	AACCTGGTAA	GCATCATATG	GGTCTAGCAA	CAAAGGACAA	TCAGATTGCC	120
TATATTGATG	ATAGCAAAGG	TAAGGCAAAA	GCCCCTAAAA	CAAACAAAC	GATGGATCAA	180
ATCAGTGCTG	AAGAAGGCAT	CTCTGCTGAA	CAGATCGTAG	TCAAAATTAC	TGACCAAGGT	240
TATGTGACCT	CACACGGTGA	CCATTATCAT	TTTTACAATG	GGAAAGTTCC	TTATGATGCG	300
ATTATTAGTG	AAGAGTTGTT	GATGACGGAT	CCTAATTACC	ATTTTAAACA	ATCAGACGTT	360
ATCAATGAAA	TCTTAGACGG	TTACGTTATT	AAAGTCAATG	GCAACTATTA	TGTTTACCTC	420
AAGCCAGGTA	GTAAGCGCAA	AAACATTCTG	ACCAAACAAC	AAATTGCTGA	GCAAGTAGCC	480
AAAGGAACTA	AAGAAGCTAA	AGAAAAAGGT	TTAGCTCAAG	TGGCCCATCT	CAGTAAAGAA	540
GAAGTTGCGG	CAGTCAATGA	AGCAAAAAGA	CAAGGACGCT	ATACTACAGA	CGATGGCTAT	600
ATTTTITAGTC	CGACAGATAT	CATTGATGAT	TTAGGAGACG	CTTATTTAGT	ACCTCATGGT	660
AATCACTATC	ATTATATTCC	TAAAAAAGAT	TTGTCTCCAA	GTGAGCTAGC	TGCTGCACAA	720
GCTTACTGGA	GTCAAAAACA	AGGTCGAGGT	GCTAGACCGT	CTGATTACCG	CCCGACACCA	780
GCCCCAGGTC	GTAGGAAAGC	TCCAATTCCT	GATGTGACGC	CTAACCTGG	ACAAGGTCAT	840
CAGCCAGATA	ACGGTGGCTA	TCATCCAGCG	CCTCCTAGGC	CAAATGATGC	GTCACAAAAC	900
AAACACCAAA	GAGATGAGTT	TAAAGGAAAA	ACCTTTAAGG	AACTTTTAGA	TCAACTACAC	960
CGTCTTGATT	TGAAATACCG	TCATGTGGAA	GAAGATGGGT	TGATTTTTGA	ACCGACTCAA	1020
GTGATCAAAT	CAAACGCTTT	TGGGTATGTG	GTGCCTCATG	GAGATCATT	TCATATTATC	1080
CCAAGAAGTC	AGTTATCACC	TCTTGAAATG	GAATTAGCAG	ATCGATACTT	AGCCGGTCAA	1140
ACTGAGGACA	ATGATTACAG	TTGAGATCAC	TCAAAACCAT	CAGATAAAGA	AGTGACACAT	1200
ACCTTTCTTG	GTCATCGCAT	CAAAGCTTAC	GGAAAAGGCT	TAGATGGTAA	ACCATATGAT	1260
ACGAGTGATG	CTTATGTTTT	TAGTAAAGAA	TCCATTTCATT	CAGTGGATAA	ATCAGGAGTT	1320
ACAGCTAAAC	ACGGAGATCA	TTTCCACTAT	ATAGGATTTG	GAGAACTTGA	ACAATATGAG	1380
TTGGATGAGG	TCGCTAACTG	GGTGAAAGCA	AAAGGTCAAG	CTGATGAGCT	TGCTGCTGCT	1440
TTGGATCAGG	AACAAGGCAA	AGAAAAACCA	CTCTTTGACA	CTAAAAAAGT	GAGTCGCAAA	1500
GTAACAAAAG	ATGGTAAAGT	GGGCTATATT	ATGCCAAAAG	ATGGCAAGGA	CTATTTCTAT	1560
GCTCGTGATC	AACTTGATTT	GACTCAGATT	GCCTTTGCCG	AACAAGAAGT	AATGCTTAAA	1620
GATAAGAACC	ATTACCGTTA	TGACATTGTT	GACACAGGTA	TTGAGCCACG	ACTTGCTGTA	1680
GATGTGTCAA	GTCTGCCGAT	GCATGCTGGT	AATGCTACTT	ACGATACTGG	AAGTTCGTTT	1740
GTTATCCCTC	ATATTGATCA	TATCCATGTC	GTTCCGTATT	CATGGTTGAC	GCGCGATCAG	1800
ATTGCAACAA	TCAAGTATGT	GATGCAACAC	CCCGAAGTTC	GTCCAGATGT	ATGGTCTAAG	1860
CCAGGGCATG	AAGAGTCAGG	TTCGGTCATT	CCAAATGTTA	CGCCTCTTGA	TAAACGTGCT	1920
GGTATGCCAA	ATTGGCAAAT	CATCCATTCT	GCTGAAGAAG	TTCAAAAAGC	CCTAGCAGAA	1980
GGTCGTTTTG	CAACACCAGA	CGGCTATATT	TTGATCCAC	GAGATGTTTT	GGCCAAAGAA	2040
ACTTTTGTAT	GGAAAGATGG	CTCCTTTAGC	ATCCCAAGAG	CAGATGGCAG	TTTATTGAGA	2100
ACCATTAATA	AATCTGATCT	ATCCCAAGCT	GAGTGGCAAC	AAGCTCAAGA	GTTATTGGCA	2160
AAGAAAAACG	CTGGTGATGC	TACTGATACG	GATAAACCCA	AAGAAAAGCA	ACAGGCAGAT	2220
AAGAGCAATG	AAAACCAACA	GCCAAGTGAA	GCCAGTAAAG	AAGAAGAAAA	AGAATCAGAT	2280
GACTTTATAG	ACAGTTTACC	AGACTATGGT	CTAGATAGAG	CAACCCTAGA	AGATCATATC	2340
AATCAATTAG	CACAAAAAGC	TAATATCGAT	CCTAAGTATC	TCATTTTCCA	ACCAGAAGGT	2400
GTCCAATTTT	ATAATAAAAA	TGGTGAATTA	GTAACCTTATG	ATATCAAGAC	GCTTCAACAA	2460
ATAAACCTT	AA	(SEQ ID NO : 82)				2472

FIGURE 47

VKKTYGYIGS	VAAILLATHI	GSYQLGKHHM	GLATKDNQIA	YIDDSKGKAK	50
APKTNKTMDQ	ISAEEGISAE	QIVVKITDQG	YVTSHGDHYH	FYNGKVPYDA	100
IISEELLMTD	PNYHFKQSDV	INEILDGYVI	KVNGNYVYVL	KPGSKRKNIR	150
TKQQIAEQVA	KGTKEAKEKG	LAQVAHLSKE	EVAAVNEAKR	QGRYTTDDGY	200
IFSPTDIIDD	LGDAYLVPHG	NHYHYIPKKG	LSPSELAAAQ	AYWSQKQGRG	250
ARPSDYRPTP	APGRRKAPIP	DVTPNPGQGH	QPDNGGYHPA	PPRPNDASQN	300
KHQREDFKGG	TFKELLDQLH	RLDLKYRHVE	EDGLIFEPTQ	VIKSNAFGYV	350
VPHGDHYHII	PRSQLSPLM	ELADRYLAGQ	TEDNDSGSDH	SKPSDKEVTH	400
TFLGHRIKAY	GKGLDGKPYD	TSDAYVFSKE	SIHSVDKSGV	TAKHGDHFHY	450
IGFGELEQYE	LDEVANWVKA	KGQADELAAA	LDQEQGKEKP	LFDTKKVSrk	500
VTKDGKVGyi	MPKDGKDYFY	ARDQLDLTQI	AFAEQELMLK	DKNHYRYDIV	550
DTGIEPRLAV	DVSSLPMHAG	NATYDTGSSF	VIPHIDHIHV	VPYSWLTRDQ	600
IATIKYVMQH	PEVRPDVWSK	PGHEESGSVI	PNVTPLDKRA	GMPNWQIIHS	650
AEVQKALAE	GRFATPDGYI	FDPRDLAKE	TFVWKDGSFS	IPRADGSSLR	700
TINKSDLSQA	EWQQAQELLA	KKNAGDATDT	DKPKEKQQAD	KSNENQQPSE	750
ASKEEEKESD	DFIDSLPDYG	LDRATLEDHI	NQLAQKANID	PKYLIFQPEG	800
VQFYNKNGEL	VTYDIKTLQQ	INPP	(SEQ ID NO : 83)		824

FIGURE 48

VKPTYGYIGS	VAAILLATHI	GSYQLGKHHM	GLATKDNQIA	YIDDSKGKAK	50
APKTNKTMDQ	ISAEEGISAE	QIVVKITDQG	YVTSHGDHYH	FYNGKVPYDA	100
IISEELLMTD	PNYHFKQSDV	INEILDGYVI	KVNGNYYYVYL	KPGSKRKNIR	150
TKQQIAEQVA	KGTKEAKEKG	LAQVAHLSKE	EVAAVNEAKR	QGRYTDDGY	200
IFSPTDIIDD	LGDAYLVPHG	NHYHYIPKKD	LSPSELAAQ	AYWSQKQGRG	250
ARPSDYRPTP	APGRRKAPIP	DVTPNPGQGH	QPDNGGYHPA	PPRPNDASQN	300
KHORDEFK GK	TFKELLDQLH	RLDLKYRHVE	EDGLIFEPTQ	VIKSNAGFYV	350
VPHGDHYHII	PRSQLSPLEM	ELADRYLAGQ	TEDNDSGSDH	SKPSDKEVTH	400
TFLGHRIKAY	GKGLDGKPYD	TSDAYVFSKE	SIHSVDKSGV	TAKHGDHFHY	450
IGFGELEQYE	LDEVANWVKA	KGQADELAAA	LDQEQGKEKP	LFDTKKVS RK	500
VTKDGVGYI	MPKDGKDYFY	ARDQLDLTQI	AFAEQELMLK	DKNHYRYDIV	550
DTGIEPRLAV	DVSSLPMHAG	NATYDTGSSF	VIPHIDHIHV	VPYSWLTRDQ	600
IATIKYVMQH	PEVRPDVWSK	PGHEESG SVI	PNVTPLDKRA	GMPNWQIIHS	650
AEEVQKALAE	GRFATPDGYI	FDPRDVLAKE	TFVWKDGSFS	IPRADGSSLR	700
TINKSDLSQA	EWQQAQELLA	KKNAGDATDT	DKPKEKQQAD	KSNENQQPSE	750
ASKEEEKESD	DFIDSLPDYG	LDRATLEDHI	NQLAQKANID	PKYLIFQPEG	800
VQFYKNNGEL	VTYDIKTLQO	INPP	(SEQ ID NO : 83)		824

FIGURE 48